



1801 Old Highway 8 Northwest, Suite 114, St. Paul, Minnesota 55112 Telephone: 651-639-0913 Facsimile: 651-639-0923 www.CRAworld.com

December 1, 2009

Reference No. 054633-20

Ms. Steven Faryan
UNITED STATES ENVIRONMENTAL
PRCTECTION AGENCY
Region V
Mail Station SE-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3507

Dear Mr. Faryan:

Re: Construction Progress Status Report
20 Jefferson Avenue Site – Elgin, Illinois

This letter and attachments are submitted on behalf of the Jefferson Yard Removal Action Group (Group) as a Progress Report for remedial construction activities at the 20 Jefferson Avenue site (Site) completed through November 30, 2009. This report is submitted pursuant to the Administrative Settlement Agreement and Order on Consent for Removal Action, dated October 14, 2009.

This Construction Progress Status Report was prepared to briefly describe the activities completed to date and does not constitute a detailed Construction Completion Report, which will be provided to the United States Environmental Protection Agency (USEPA) at a later date.

WORK COMPLETED AND NOTED EVENTS

- 1. Work at the Site commenced on October 20, 2009. Conestoga-Rovers & Associates (CRA) served as the contractor and EQ as CRA's subcontractor for excavation and soil disposal services.
- 2. The Pre-Construction Meeting was held on October 21, 2009 at the Site. Minutes of this meeting were distributed to the attendees, the City of Elgin, the USEPA, and the Group.
- 3. A weekly construction progress meeting was held on October 29, 2009. Minutes of this meeting were distributed to the attendees, the City of Elgin, the USEPA, and the Group.
- 4. Soil stabilization was completed on October 23, 2009.
- 5. Transportation and off-site disposal of excavated materials began on October 27, 2009.





December 1, 2009

Reference No. 054633-20

- 2 -

- 6. Two areas of additional excavation (SB11 and JSS9) were completed based upon the confirmatory sampling results indicating that the soils in these areas had not yet achieved the total lead cleanup criteria (400 mg/kg).
- 7. Based upon review of all confirmatory sampling results, excavation of soils was deemed complete on November 4, 2009.
- 3. The cleaning of concrete surfaces was completed on November 4, 2009.
- 9. Decontamination of equipment was completed on November 4, 2009.
- 10. CRA and EQ partially demobilized from the Site on November 4, 2009.
- 11. CRA and USEPA conducted a final inspection of the Site on November 5, 2009.

UPCOMING WORK

- 1. Six 55-gallon drums of concrete cleaning and decontamination water are awaiting waste profiling results and off-site disposal. We expect this work to be completed within the next 2 to 3 weeks.
- 2. The Construction Completion Report will be submitted to USEPA within 60 days of completion of all work to be performed.

DATA RESULTS AND WASTE VOLUMES

As requested by USEPA, the following information is provided as attachments to this progress report. Final versions of this information will be provided in the Construction Completion Report. The analytical data results are considered final, but the data validation has not been completed.

Attachment A Figures depicting the excavation areas and confirmatory sampling results

Attachment B Summary table of confirmatory sampling data

Attachment C Chain of Custody sheets

Attachment D Final Laboratory Data Reports

Attachment E Copies of Waste Manifests

Attachment F Backfill Certification and Geotechnical Information

The backfill used was provided from a virgin source at an Illinois DOT certified pit. As such, and in accordance with the project specifications, laboratory chemical analysis of the backfill material was waived.



December 1, 2009

Reference No. 054633-20

-3-

If you have any questions regarding this progress report, please feel free to call.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Steven R. Voss

SRV/ma/5 Encl.

cc: Jefferson Yard Removal Action Group John Nardozzi, Terracon

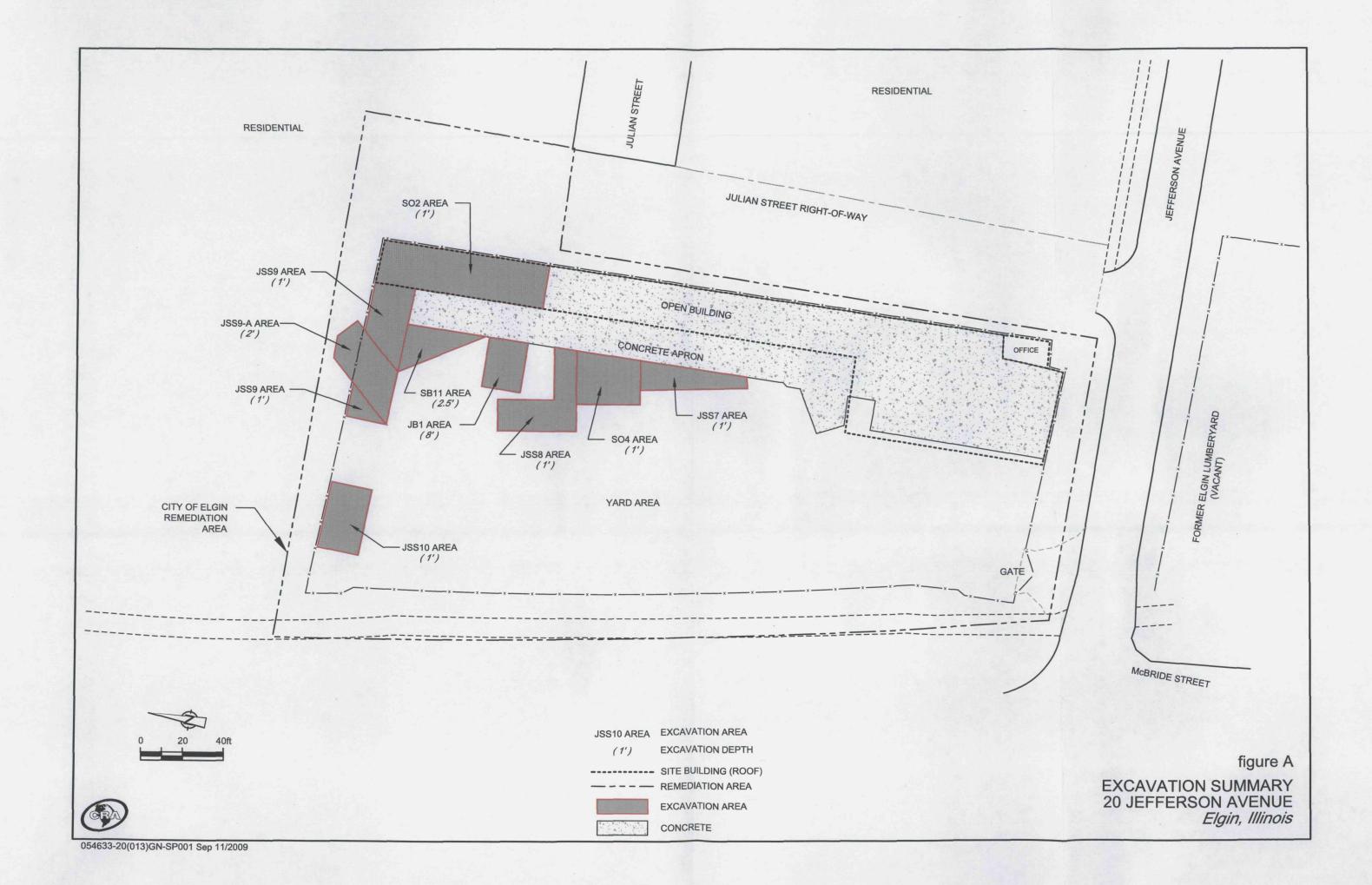
William Cogley, City of Elgin

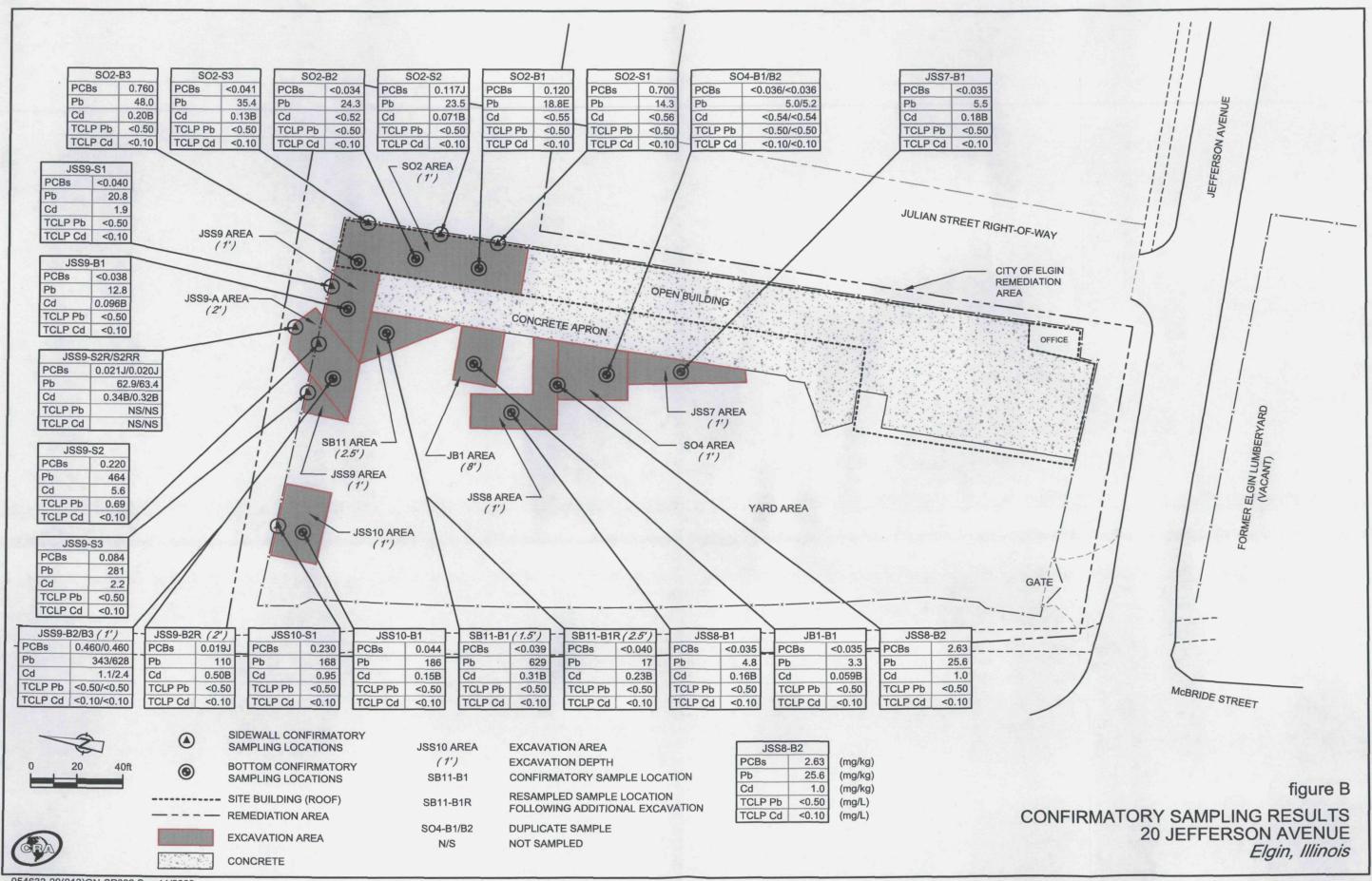
ATTACHMENT A

FIGURES DEPICTING THE EXCAVATION AREAS AND CONFIRMATORY SAMPLING RESULTS

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ATTACHMENT B SUMMARY TABLE OF CONFIRMATORY SAMPLING RESULTS

20 JEFFERSON AVENUE REMOVAL ACTION CONFIRMATORY SAMPLING RESULTS SUMMARY

Parameter	PCBs	Total Pb	Total Cd	TCLP Pb	TCLP Cd	TCLP As	TCLP Ba	TCLP Cr	TCLP Hg	TCLP Se	TCLP Ag
Criteria	10 mg/kg	400 mg/kg	390 mg/kg	5 mg/L	1 mg/L	5 mg/L	100 mg/L	5 mg/L	0.2 mg/L	1 mg/L	5 mg/L
Sample ID							14 - 16 1				
TSCA Soil	n/s	n/s	n/s	0.18 B	0.026 B	<0.50	0.74 B	<0.50	<0.0020	<0.25	<0.50
TSCA Stab	n/s	n/s	n/s	0.38 B	0.075 B	<0.50	0.70 B	0.0026 B	<0.0020	0.0052 B	<0.50
Non-TSCA Stab	n/s	n/s	n/s	2.1	0.22	<0.50	0.79 B	<0.50	<0.0020	0.0057 B	<0.50
SB11-B1	<0.039	629	0.31 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SB11-B1R	<0.040	17	0.23 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-B1	0.120	18.8 E	<0.55	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-B2	<0.034	24.3	<0.52	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-B3	0.760	48.0	0.20 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-S1	0.700	14.3	<0.56	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-S2	0.117 J	23.5	0.071 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-S3	<0.041	35.4	0.13 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO4-B1	<0.036	5.0	<0.54	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO4-B2	<0.036	5.2	<0.54	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS10-S1	0.230	168	0.95	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS10-B1	0.044	186	0.15 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS7-B1	<0.035	5.5	0.18 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS8-B1	<0.035	4.8	0.16 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS8-B2	2.63	25.6	1.0	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-S1	<0.040	20.8	1.9	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-S2	0.220	464	5.6	0.69	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-S2R	0.021 J	62.9	0.34 B	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-S2RR	0.020 J	63.4	0.32 B	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-S3	0.084	281	2.2	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-B1	<0.038	12.8	0.096 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-B2	0.460	343	1.1	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-B3	0.460	628	2.4	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-B2(3)R	0.019 J	110	0.50 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JB1-B1	<0.035	3.3	0.059 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
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RB-2	nd	nd	nd	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
RB-3	nd	nd	nd	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
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ATTACHMENT C CHAIN OF CUSTODY SHEETS

Chain of Custody Record

TestAmerica Laboratory location:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Chain of Custody Record

TestAmerica Laboratory location:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING TestAmerica Laboratory location: Regulatory program: DW ☐ NPDES RCRA Other TestAmerica Laboratories, Inc. Client Contact COC No: Lab Contact: Client Project Manager: Site Contact: Company Name: Jack Volls Telephone: Telephone: Address: _ of ___ COCs Email: City/State/Zip: **Analysis Turnaround Time** For lab use only Analyses (in BUS days) TAT if different friza below Walk-in client Phone: Lab pickup 3 weeks Project Name: Method of Shipment/Carrier: Lab sampling 2 weeks Wern what I week (V/N) Shipping/Tracking No: Job/SDG No: Project Number: Z days I day PO# Matrix Containers & Preservatives Sample Specific Notes / Special Instructions: Sample Identification Sample Date Sample Time (A 37 MB) 17/11 (HO) Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard Flammable

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Goldenrod —Sampler Copy			A CO	DATE:TIME:										

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ATTACHMENT D
FINAL LABORATORY DATA REPORTS

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Associates, Inc.
PROJECT NO. 54633
JEFFERSON YARD

SAMPLE SUMMARY

<u>WO#</u>	LABORATORY ID	SAMPLE IDENTIFICATION	<u> </u>
LM8VT	A9J240135-001	S-091023-PS-S02-B1	
LM8V2	A9J240135-002	S-091023-PS-S02-B2	
LM8V4	A9J240135-003	S-091023-PS-S02-B3	
LM8V5	A9J240135-004	S-091023-PS-S02-S1	
LM8V6	A9J240135-005	S-091023-PS-S02-S2	
LM8V7	A9J240135-006	S-091023-PS-S02-S3	
LM8V9	A9J240135-007	S-091023-PS-S04-B1	
LM8WA	A9J240135-008	S-091023-PS-S04-B2	dup of S04-B1
LM8WC	A9J240135-009	S-091023-PS-JSS10-S1	
LM8WD	A9J240135-010	S-091023-PS-JSS10-B1	
LM8WF	A9J240135-011	S-091023-PS-SB11-B1	
LM8WG	A9J240135-012	W-091023-PS-RB1	Rinsate Blank

TESTAMERICA LABORATORIES, INC.

Denise D. Heckler

Denise DHeckler

Project Manager

denise.heckler@testamericainc.com

October 29, 2009

TestAmerica Laboratories, Inc.

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TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720 Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com



Denise D. Heckler Project Vlanager 10/29/2009 9:52 AM

CASE NARRATIVE

A9J240135

The following report contains the analytical results for eleven solid samples and one water sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 54633. The samples were received October 24, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson, Pete Storlie and Steve Voss on October 28, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.4°C.

POLYCHLORINATED BIPHENYLS-8082

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch 9300037. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

Surrogate recoveries were outside criteria, since the method criterion is that one of two surrogate compounds must meet acceptance criteria, nor corrective action was required for samples S-091023-PS-S02-S3.

Samples contained degraded and/or possible mixtures of Aroclors. The best pattern match was used in identification and quantitation for the following sample(s): S-091023-PS-S02-B1, S-091023-PS-S02-S2, S-091023-PS-JSS10-S1 and S-091023-PS-JSS10-B1.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes flagged with "E".

The QC batch associated with batch 9299012 for the Metals analysis is reported without an MS/MSD. The MS/MSD was performed on another client's sample within the batch. The MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. Ongoing evaluation and monitoring of the LCS provides long-term precision and accuracy for the method.

CASE NARRATIVE (continued)

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

OC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must mee: acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

• Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone	}	Lead, Calcium,	
		Magnesium, Potassium,	
		Sodium, Barium,	
	<u> </u>	Chromium, Manganese	

5 of 0

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request. California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit

EXECUTIVE SUMMARY - Detection Highlights

A9J240135

Mad	PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
	S-091023-PS-S02-B1 10/23/09 11:45	001			
اندنا	Aroclor 1242	67	36	ug/kg	SW846 8082
	Aroclor 1254	53	36	ug/kg	SW846 8082
	Iead	18.8 E	0.33	mg/kg	SW846 6010B
141	Fercent Solids	90.8	10.0	9	MCAWW 160.3 MOD
	S-091023-PS-S02-B2 10/23/09 11:50	002			
lail	Lead	24.3	0.31	mg/kg	SW846 6010B
	Percent Solids	95.9	10.0	8	MCAWW 160.3 MOD
أنسزة	S-091023-PS-S02-B3 10/23/09 11:55	003			
	Aroclor 1254	760	180	ug/kg	SW846 8082
d land	Lead	48.0	0.32	mg/kg	SW846 6010B
	Cadmium	0.20 B	0.54	mg/kg	SW846 6010B
1	Percent Solids	92.6	10.0	ક	MCAWW 160.3 MOD
	S-091023-PS-S02-S1 10/23/09 12:00	004			
Îtală	Aroclor 1254	700	190	ug/kg	SW846 8082
	Lead	14.3	0.34	mg/kg	SW846 6010B
	Percent Solids	88.9	10.0	&	MCAWW 160.3 MOD
	S-091023-PS-S02-S2 10/23/09 12:05	005			
	Aroclor 1248	86	39	ug/kg	SW846 8082
11	Aroclor 1260	31 J	39	ug/kg	SW846 8082
1 18	Lead	23.5	0.35	mg/kg	SW846 6010B
	Cadmium	0.071 B	0.58	mg/kg	SW846 6010B
1	Percent Solids	85.5	10.0	9	MCAWW 160.3 MOD
	S-091023-PS-S02-S3 10/23/09 12:10	006			
4-11	I.ead	35.4	0.37	mg/kg	SW846 6010B
	Cadmium	0.13 B	0.62	mg/kg	SW846 6010B
	Percent Solids	81.0	10.0	9	MCAWW 160.3 MOD
loc á ‡	S-091023-PS-S04-B1 10/23/09 11:40	007			
,	Lead	5.0	0.32	mç/kg	SW846 6010B
M	Percent Solids	92.7	10.0	oo	MCAWW 160.3 MOD
	(Cont.	inued on next	page)		

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EXECUTIVE SUMMARY - Detection Highlights

A9J240135

FARAMETER	RESULT	REPORTIN LIMIT	IG UNITS	ANALYTICAL METHOD
				
S-091023-PS-S04-B2 10/23/09 11	:40 008			!
Lead	5.2	0.33	mg/kg	SW846 6010B
Fercent Solids	92.2	10.0	90	MCAWW 160.3 MOD
S-091023-PS-JSS10-S1 10/23/09	13:30 009			ļ
Aroclor 1254	230	40	ug/kg	SW846 8082
Lead	168	0.37	mg/kg	SW846 6010B
Cadmium	0.95	0.61	mg/kg	SW846 6010B
Fercent Solids	81.5	10.0	96	MCAWW 160.3 MOD
S-091023-PS-JSS10-B1 10/23/09	13:30 010			j
Aroclor 1254	44	38	ug/kg	SW846 8082
Lead	186	0.35	mg/kg	SW846 6010B
Cadmium	0.15 B	0.58	mg/kg	SW846 6010B
Fercent Solids	86.8	10.0	96	MCAWW 160.3 MOD
S-091023-PS-SB11-B1 10/23/09 1	4:00 011			į
Lead	629	0.36	mg/kg	SW846 6010B
Cadmium	0.31 B	0.60	mg/kg	SW846 6010B
Fercent Solids	83.6	10.0	ફ	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A9J240135

PARAMETER	ANALYTICAL METHOD		
Inductively Coupled Plasma (ICP) Metals PCBs by SW-846 8082 Total Residue as Percent Solids Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B SW846 8082 MCAWW 160.3 MOD SW846 6010B		

References:

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MCAWW	"Methods for Chemical Analysis of Water and Wastes",
	EPA-600/4-79-020, March 1983 and subsequent revisions.
SW846	"Test Methods for Evaluating Solid Waste, Physical/Chemical
	Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A9J240135

WO # 5	SAMPI.F.	CLIENT SAMPLE ID	SAMPLED DATE	SAM TIN
110 11	77 11 11 11 11 11	CHIENT DIRITED ID		
LM8VT	001	S-091023-PS-S02-B1	10/23/09	11:
LM8V2	002	S-091023-PS-S02-B2	10/23/09	11:
LM8V4	003	S-091023-PS-S02-B3	10/23/09	11
LM8V5	004	S-091023-PS-S02-S1	10/23/09	12.
LM8V6	005	S-091023-PS-S02-S2	10/23/09	12:
LM8V7	006	S-091023-PS-S02-S3	10/23/09	12
LM8V9	007	S-091023-PS-S04-B1	10/23/09	11
LM8WA	0.08	S-091023-PS-S04-B2	10/23/09	11:
LM8WC	009	S-091023-PS-JSS10-S1	10/23/09	13
LM8WD	010	S-091023-PS-JSS10-B1	10/23/09	13
LM8WF	011	S-091023-PS-SB11-B1	10/23/09	14:
LM8WG	012	W-091023-PS-RB1	10/23/09	11

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "NE" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH. porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Client Sample ID: S-091023-PS-S02-B1

GC Semivolatiles

ì		10/23/09 11:45 10/26/09	Work Order #: Date Received: Analysis Date:	10/24/09	Matrix.	: SO
L.H.H	Dilution Factor:	1				
in the	% Moisture:	9.2	Method:	SW846 8082		
				REPORTING		
liad .	PARAMETER		RESULT	LIMIT	UNITS	MDL
	Aroclor 1016		ND	36	ug/kg	23
	Aroclor 1221		ND	36	ug/kg	18
h.at	Aroclor 1232		ND	36	ug/kg	15
4111	Aroclor 1242		67	36	ug/kg	14
	Aroclor 1248		ND	36	ug/kg	19
	Aroclor 1254		53	36	ug/kg	19
lobit	Aroclor 1260		ND	36	ug/kg	19
			PERCENT	RECOVERY		
	SURROGATE		RECOVERY	LIMITS		
	Tetrachloro-m-xylene		104	(10 - 196)		

(10 - 199)

119

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Decachlorobiphenyl

Client Sample ID: S-091023-PS-S02-B1

TOTAL Metals

Lot-Sample #...: A9J240135-001 Matrix.....: S0

Date Sampled...: 10/23/09 11:45 Date Received..: 10/24/09

% Moisture....: 9.2

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

E Matrix interference.

Client Sample ID: S-091023-PS-S02-B1

TCLP Metals

Lot-Sample #...: A9J240135-001 Matrix....: S0

Date Sampled...: 10/23/09 11:45 Date Received..: 10/24/09

Leach Date....: 10/25/09 Leach Batch #..: P929801

REPORTING PREPARATION-WORK _____RESULT PARAMETER LIMIT UNITS METHOD ANALYSIS DATE ORDER # Cadmium ND 0.10 SW846 6010B 10/27/09 mg/L LM8VT1AE Dilution Factor: 1 MDL..... 0.00066 Lead ND 0.50 mg/L SW846 6010B 10/27/09 LM8VT1AF Dilution Factor: 1 MDL..... 0.0019

NOTE (S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091023-PS-S02-B1

General Chemistry

Lot-Sample #...: A9J240135-001 Work Order #...: LM8VT Matrix.....: SO

Date Sampled...: 10/23/09 11:45 Date Received..: 10/24/09

% Moisture....: 9.2

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH

 Percent Solids
 90.8
 10.0
 %
 MCAWW 160.3 MOD
 10/27-10/28/09
 9300273

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Client Sample ID: S-091023-PS-S02-B2

GC Semivolatiles

Lot-Sample #: A9J240135-002	Work Order #: LM8V21AA	Matrix SO
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Date Sampled...: 10/23/09 11:50 Date Received..: 10/24/09 Prep Date.....: 10/26/09 Analysis Date..: 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

% Moisture....: 4.1 **Method.....:** SW846 8082

		REPORTIN	IG		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	34	ug/kg	22	
Aroclor 1221	ND	34	ug/kg	17	
Aroclor 1232	ND	34	ug/kg	15	
Aroclor 1242	ND	34	ug/kg	14	
Aroclor 1248	ND	34	ug/kg	18	
Aroclor 1254	ND	34	ug/kg	18	
Aroclor 1260	ND	34	ug/kg	18	
	PERCENT	RECOVERY	<u>.</u>		
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	96	(10 - 196)			
Decachlorobiphenyl	131	(10 - 19	9)		

NOTE (S):

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Results and reporting limits have been adjusted for dry weight.

Client Sample ID: S-091023-PS-S02-B2

TOTAL Metals

Lot-Sample #...: A9J240135-002 **Matrix.....:** SO

Date Sampled...: 10/23/09 11:50 Date Received..: 10/24/09

% Moisture....: 4.1

NOTE (S):

4.1					-
	REPORTI	NG		PREPARATION-	WORK
RESULT	LIMIT	UNITS	<u>ME</u> THOD	ANALYSIS DATE	ORDER ;
: 9299021					_
ND	0.52	mg/kg	SW846 6010B	10/26-10/27/09	LM8V21
	Dilution Fac	ctor: 1	MDL 0.038		.
24.3	0.31	mg/kg	SW846 6010B	10/26-10/27/09	LM8V21
	Dilution Fac	ctor: 1	MDL 0.20		·
	RESULT: 9299021 ND	REPORTING RESULT LIMIT : 9299021 ND 0.52 Dilution Fact 24.3 0.31	REPORTING RESULT LIMIT UNITS : 9299021 ND 0.52 mg/kg Dilution Factor: 1	REPORTING RESULT LIMIT UNITS METHOD : 9299021 ND 0.52 mg/kg SW846 6010B Dilution Factor: 1 MDL	REPORTING RESULT LIMIT UNITS METHOD PREPARATION— ANALYSIS DATE 10/26-10/27/09 Dilution Factor: 1 MDL: 0.038 24.3 0.31 mg/kg SW846 6010B 10/26-10/27/09

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: S-091023-PS-S02-B2

TCLP Metals

Lot-Sample #...: A9J240135-002 Matrix....: S0

Date Sampled...: 10/23/09 11:50 Date Received..: 10/24/09
Leach Date....: 10/25/09 Leach Batch #..: P929801

REPORTING PREPARATION- WORK
PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Dilution Factor: 1 MDL..... 0.00066

Lead ND 0.50 mg/L SW846 6010B 10/27-10/28/09 LM8V21AF

Dilution Factor: 1 MDL..... 0.0019

NOTE (S):
Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091023-PS-S02-B2

General Chemistry

Lot-Sample #...: A9J240135-002 Work Order #...: LM8V2 Matrix...... S0

Date Sampled...: 10/23/09 11:50 Date Received..: 10/24/09

% Moisture....: 4.1

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH

 Percent Solids
 95.9
 10.0
 %
 MCAWW
 160.3
 MOD
 10/27-10/28/09
 9300273

Dilution Factor: 1 MDL..... 10.0

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Client Sample ID: S-091023-PS-S02-B3

GC Semivolatiles

Lot-Sample #: A9J240135-003	Work Order #:	LM8V41AA	Matri	x SO
Date Sampled: 10/23/09 11:55	Date Received:	10/24/09		
Prep Date: 10/26/09	Analysis Date:	10/28/09		
Prep Batch #: 9299154				
Dilution Factor: 5				
% Moisture: 7.4	Method:	SW846 8082		
		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	180	ug/kg	110
Aroclor 1221	ND	180	ug/kg	86
Aroclor 1232	ND	180	ug/kg	76
Aroclor 1242	ND	180	ug/kg	70
Aroclor 1248	ND	180	ug/kg	92
Aroclor 1254	760	180	ug/kg	92
Aroclor 1260	ND	180	ug/kg	92
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	115 DIL	(10 - 196)		
Decachlorooiphenyl	153 DIL	(10 - 199)		

NOTE (S):

DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: S-091023-PS-S02-B3

TOTAL Metals

Lot-Sample #...: A9J240135-003 Matrix....: SO

% Moisture	7.4					N
PARAMETER	RESULT	REPORTI LIMIT	NG <u>UNITS</u>	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER
Prep Batch #	9299021					
Cadmium	0.20 B	0.54	mg/kg	SW846 6010B	10/26-10/27/09	LM8V41
		Dilution Fa	ctor: 1	MDL 0.039		•
Lead	48.0	0.32	mg/kg	SW846 6010B	10/26-10/27/09	LM8V41
		Dilution Fa	ctor: 1	MDL 0.21	•	

NOTE(S):

B Estimated result. Result is less than RL.

Client Sample ID: S-091023-PS-S02-B3

TCLP Metals

Lot-Sample #: A9J2	240135-003	Matrix: SO
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Date Sampled...: 10/23/09 11:55 Date Received..: 10/24/09 Leach Date....: 10/25/09 Leach Batch #..: P929801

REPORTING PREPARATION- WORK

MDL..... 0.0019

Dilution Factor: 1

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

NOTE(S):

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Client Sample ID: S-091023-PS-S02-B3

General Chemistry

Lot-Sample #...: A9J240135-003 **Work Order #...:** LM8V4 **Matrix.....:** SO

Date Sampled...: 10/23/09 11:55 **Date Received..:** 10/24/09

% Moisture....: 7.4

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH

 Percent Solids
 92.6
 10.0
 %
 MCAWW 160.3 MOD
 10/27-10/28/09
 9300273

Dilution Factor: 1 MDL..... 10.0

Client Sample ID: S-091023-PS-S02-S1

GC Semivolatiles

Lot-Sample #: A9J240135-004	Work Order #: LM8V51AA	Matrix SO
Date Sampled: 10/23/09 12:00	Date Received: 10/24/09	
Prep Date: 10/26/09	Analysis Date: 10/28/09	

Prep Batch #...: 9299154

Dilution Factor: 5

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% Moisture....: 11 **Method.....:** SW846 8082

		REPORTIN	1G		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	190	ug/kg	120	
Aroclor 1221	ND	190	ug/kg	90	
Aroclor 1232	ND	190	ug/kg	79	
Aroclor 1242	ND	190	ug/kg	73	
Aroclor 1248	ND	190	ug/kg	96	
Aroclor 1254	700	190	ug/kg	96	
Aroclor 1250	ND	190	ug/kg	96	
	PERCENT	RECOVERY			
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	114 DIL	(10 - 19	96)		
Decachlorobiphenyl	137 DIL	(10 - 19	9)		

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Client Sample ID: S-091023-PS-S02-S1

TOTAL Metals

Lot-Sample #...: A9J240135-004 **Matrix.....:** S0

Date Sampled...: 10/23/09 12:00 Date Received..: 10/24/09

% Moisture....: 11

9021				
0.56	mg/kg	SW846 6010B	10/26-10/27/09	LM8V51
Dilution Fa	ctor: 1	MDL 0.040		İ
0.34	mg/kg	SW846 6010B	10/26-10/27/09	LM8V51
Dilution Fa	ctor: 1	MDL 0.21		í
	Dilution Fa 0.34	Dilution Factor: 1	Dilution Factor: 1 MDL 0.040 0.34 mg/kg SW846 6010B	Dilution Factor: 1 MDL 0.040 0.34 mg/kg SW846 6010B 10/26-10/27/09

NOTE (S):
Results and reporting limits have been adjusted for dry weight.

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Client Sample ID: S-091023-PS-S02-S1

TCLP Metals

Lot-Sample #: A9J240135-004	Matrix: SO
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Date Sampled...: 10/23/09 12:00 Date Received..: 10/24/09

Leach Date....: 10/25/09 Leach Batch #..: P929801

REPORTING PREPARATION-WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER # Prep Batch #...: 9299013 SW846 6010B 10/27-10/28/09 LM8V51AE Cacmium ND 0.10 mg/L Dilution Factor: 1 MDL..... 0.00066

Lead ND 0.50 mg/L SW846 6010B 10/27-10/28/09 LM8V51AF

Dilution Factor: 1 MDL..... 0.0019

NOTE (S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091023-PS-S02-S1

General Chemistry

Lot-Sample #...: A9J240135-004 **Work Order #...:** LM8V5 **Matrix.....:** SO

Date Sampled...: 10/23/09 12:00 Date Received..: 10/24/09

% Moisture....: 11

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH

 Percent Solids
 88.9
 10.0
 %
 MCAWW 160.3 MOD
 10/27-10/28/09
 9300273

Dilution Factor: 1 MDL..... 10.0

0 -4 00

Client Sample ID: S-091023-PS-S02-S2

GC Semivolatiles

Lot-Sample #: A9J240135-005	Work Order #:	LM8V61AA	Matri:	x SO
Date Sampled: 10/23/09 12:0	5 Date Received:	10/24/09		
Prep Date: 10/26/09	Analysis Date:	10/28/09		
Prep Batch #: 9299154	_			
Dilution Factor: 1				
% Moisture: 14	Method:	SW846 8082		
		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	16
Aroclor 1242	ŅD	39	ug/kg	15
Aroclor 1248	86	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	31 Ј	39	ug/kg	20

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Tetrachloro-m-xylene	118	(10 - 196)
Decachloropiphenyl	132	(10 - 199)

NOTE (S):

J Estimated result. Result is less than RL.

Client Sample ID: S-091023-PS-S02-S2

TOTAL Metals

	: A9J240135		Received.	.: 10/24/09	Matrix:	SO'
% Moisture						1
		REPORTI	NG		PREPARATION-	WORK ,
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
Prep Batch # Cadmium	: 9299021 0.071 B	0.58 Dilution Fa	mg/kg	SW846 6010B MDL	10/26-10/27/09	LM8V61
Lead	23.5	0.35 Dilution Fa	mg/kg ctor: 1	SW846 6010B MDL	10/26-10/27/09	LM8V61.

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: S-091023-PS-S02-S2

TCLP Metals

Lot-Sample #...: A9J240135-005 Matrix.....: SO

Date Sampled...: 10/23/09 12:05 Date Received..: 10/24/09

Leach Date....: 10/25/09 Leach Batch #..: P929801

REPORTING PREPARATION-WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER # Prep Batch #...: 9299013 Cadmium ND 0.10 mg/L SW846 6010B 10/27-10/28/09 LM8V61AE Dilution Factor: 1 MDL..... 0.00066 Lead ND 0.50 SW846 6010B 10/27-10/28/09 LM8V61AF mq/L

MDL..... 0.C019

Dilution Factor: 1

NOTE (S):

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Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091023-PS-S02-S2

General Chemistry

Lot-Sample #...: A9J240135-005 Work Order #...: LM8V6 Matrix.....: SO

Date Sampled...: 10/23/09 12:05 Date Received..: 10/24/09

% Moisture....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH
Percent Solids	85.5	10.0	F	MCAWW 160.3 MOD	10/27-10/28/09	930029
	Dil	ution Fact	or: 1	MDL 10.0		(

Client Sample ID: S-091023-PS-S02-S3

GC Semivolatiles

Lot-Sample #:	A9J240135-006	Work Order #: I	LM8V71AA	Matrix SO
Date Sampled:	10/23/09 12:10	Date Received: 1	L0/2 4 /09	
Prep Date:	10/26/09	Analysis Date: 1	10/28/09	

Prep Batch #...: 9299154

Dilution Factor: 1

% Moisture....: 19

Method.....: SW846 8082

		REPORTIN	IG	
PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	41	ug/kg	26
Aroclor 1221	N D	41	ug/kg	20
Aroclor 1232	ND	41	ug/kg	17
Aroclor 1242	N D	41	ug/kg	16
Aroclor 1248	ND	41	ug/kg	21
Aroclor 1254	ND	41	ug/kg	21
Aroclor 1260	ND	41	ug/kg	21
	PERCENT	RECOVERY	,	
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	90	(10 - 19	6)	
Decachlorobiphenyl	4180 *	(10 - 19	9)	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: S-091023-PS-S02-S3

TOTAL Metals

-	: A9J24013 : 10/23/09		Received	. 10/24/00	Matrix:	SO
% Moisture		12:10 Date	Received.	.: 10/24/09		Į
		REPORTI	NG		PREPARATION-	WORK ,
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Prep Batch (Cadmium	9299021 0.13 B	0.62 Dilution Fa	mg/kg	SW846 6010B MDL	10/26-10/27/09	LM8V712
Lead	35.4	0.37	mg/kg	SW846 6010B	10/26-10/27/09	LM8V712
		Dilution Fa	ctor: 1	MDL 0.23		

NOTE(S):

B Estimated result. Result is less than RL.

Client Sample ID: S-091023-PS-S02-S3

TCLP Metals

Lot-Sample #...: A9J240135-006 Matrix.....: SO

Date Sampled...: 10/23/09 12:10 Date Received..: 10/24/09

Leach Date....: 10/25/09 Leach Batch #..: P929801

PARAMETER	RESULT	REPORTIN LIMIT	IG UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch	9299013					
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8V71AE
		Dilution Fac	tor: 1	MDL 0.00	0066	
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8V71AF
		Dilution Fac	tor: 1	MDL 0.00	019	

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

NOTE(S):

Client Sample ID: S-091023-PS-S02-S3

General Chemistry

Lot-Sample #...: A9J240135-006 **Work Order #...:** LM8V7 **Matrix.....:** SO

Date Sampled...: 10/23/09 12:10 Date Received..: 10/24/09

% Moisture....: 19

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH

 Percent Solids
 81.0
 10.0
 %
 MCAWW 160.3 MOD
 10/27-10/28/09
 9300290

Dilution Factor: 1 MDL..... 10.0

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Client Sample ID: S-091023-PS-S04-B1

GC Semivolatiles

Lot-Sample #: A9J240135-007	Work Order #: LM8V91AA	Matrix SO
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Date Sampled...: 10/23/09 11:40 Date Received..: 10/24/09 Prep Date.....: 10/26/09 Analysis Date..: 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

% Moisture....: 7.4 **Method.....:** SW846 8082

		REPORTIN	IG		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	36	ug/kg	23	
Aroclor 1221 ND		36	ug/kg	17	
Aroclor 1232	ND	36	ug/kg	15	
Aroclor 1242	ND	36	ug/kg	14	
Aroclor 1248	ND	36	ug/kg	18	
Aroclor 1254	ND	36	ug/kg	18	
Aroclor 1250	ND	36	ug/kg	18	
	PERCENT	RECOVERY	•		
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	90	(10 - 19	(6)		
Decachlorobiphenyl	96	(10 - 19	9)		

NOTE (S):

Client Sample ID: S-091023-PS-S04-B1

TOTAL Metals

Lot-Sample #...: A9J240135-007 **Matrix.....:** SO

Date Sampled...: 10/23/09 11:40 Date Received..: 10/24/09

% Moisture....: 7.4

NOTE (S):

PARAMETER	RESULT	REPORTIN LIMIT	IG UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER
Prep Batch Cadmium	#: 9299021 ND	0.54 Dilution Fac	mg/kg tor: 1	SW846 6010B	10/26-10/27/09	LM8V91:
Lead	5.0	0.32 Dilution Fac	mg/kg	SW846 6010B	10/26-10/27/09	LM8V91:

Results and reporting limits have been adjusted for dry weight.

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Client Sample ID: S-091023-PS-S04-B1

TCLP Metals

Lot-Sample #...: A9J240135-007 Matrix.....: SO

Date Sampled...: 10/23/09 11:40 Date Received..: 10/24/09

Leach Date....: 10/25/09 Leach Batch #..: P929801

REPORTING PREPARATION- WORK
PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9299013

Cadmium ND 0.10 mg/L SW846 6010B 10/27-10/28/09 LM8V91AL

Dilution Factor: 1 MDL...... 0.00066

Lead ND 0.50 mg/L SW846 6010B 10/27-10/28/09 LM8V91AP

Dilution Factor: 1 MDL...... 0.0019

NOTE (S):

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Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091023-PS-S04-B1

General Chemistry

Lot-Sample #...: A9J240135-007 Work Order #...: LM8V9 Matrix.....: SO

Date Sampled...: 10/23/09 11:40 Date Received..: 10/24/09

% Moisture....: 7.4

PARAMETER RESULT RL UNITS METHOD ANALYSIS DATE BATCH

Percent Solids 92.7 10.0 % MCAWW 160.3 MOD 10/27-10/28/09 9300290

Dilution Factor: 1 MDL....... 10.0

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dup of S04-B1

Client Sample ID: S-091023-PS-S04-B2

GC Semivolatiles

Lot-Sample #: A9J240135-008	Work Order #: LM8WA1AA	Matrix SO
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Date Sampled...: 10/23/09 11:40 Date Received..: 10/24/09 Prep Date.....: 10/26/09 Analysis Date..: 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

% Moisture....: 7.8 **Method.....** SW846 8082

		REPORTIN	1 G		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	36	ug/kg	23	_
Aroclor 1221	ND	36	ug/kg	17	
Aroclor 1232	ND	36	ug/kg	15	
Aroclor 1242	ND	36	ug/kg	14	
Aroclor 1248	ND	36	ug/kg	18	
Aroclor 1254	ND	36	ug/kg	18	
Aroclor 1260	ND	36	ug/kg	18	
	PERCENT	RECOVERY	7		
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene 80		(10 - 19	96)		
Decachlorobiphenyl	105	(10 - 19	99)		

NOTE(S):

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Results and reporting limits have been adjusted for dry weight.

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Client Sample ID: S-091023-PS-S04-B2

TOTAL Metals

Lot-Sample #: A9J240135-008	Matrix: SO
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Date Sampled...: 10/23/09 11:40 Date Received..: 10/24/09

% Moisture....: 7.8

NOTE(S):

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch # Cadmium	.: 9299021 ND	0.54 Dilution Factor	mg/kg or: 1	SW846 6010B	10/26-10/27/09	LM8WA17
Lead	5.2	0.33 Dilution Facto	mg/kg	SW846 6010B MDL	10/26-10/27/09	LM8WA12

Results and reporting limits have been adjusted for dry weight.

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Client Sample ID: S-091023-PS-S04-B2

TCLP Metals

Lot-Sample #: A9J240135-008	Matrix: SO
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Date Sampled...: 10/23/09 11:40 Date Received..: 10/24/09

Leach Date....: 10/25/09 Leach Batch #..: P929801

		REPORTING			PREPARATION-	WORK	
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #	
_		_					

Prep Batch #...: 9299013

Cadmium ND 0.10 mg/L SW846 6010B 10/27-10/28/09 LM8WA1AE

Dilution Factor: 1 MDL..... 0.00066

Lead ND 0.50 mg/L SW846 6010B 10/27-10/28/09 LM8WA1AF

Dilution Factor: 1 MDL..... 0.C019

NOTE(S):

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Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091023-PS-S04-B2

General Chemistry

Lot-Sample #...: A9J240135-008 Work Order #...: LM8WA Matrix.....: SO

Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09

% Moisture....: 7.8

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH

 Percent Solids
 92.2
 10.0
 %
 MCAWW 160.3 MOD
 10/27-10/28/09
 9300290

Dilution Factor: 1 MDL...... 10.0

42 -4 00

Client Sample ID: S-091023-PS-JSS10-S1

GC Semivolatiles

Lot-Sample #: A	A9J240135-009	Work Order #:	LM8WC1AA	Matrix SO

Date Sampled...: 10/23/09 13:30 Date Received..: 10/24/09 Prep Date.....: 10/26/09 Analysis Date..: 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

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ji ilik

% Moisture....: 18 **Method.....:** SW846 8082

		REPORTIN	IG	
PARAMETER	RESULT	LIMIT_	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	26
Aroclor 1221	ND	40	ug/kg	20
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	21
Aroclor 1254	230	40	ug/kg	21
Aroclor 1250	ND	40	ug/kg	21
	PERCENT	RECOVERY	•	
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	75	(10 - 19	(6)	
Decachlorobiphenyl	54	(10 - 19	19)	

NOTE(S):

Client Sample ID: S-091023-PS-JSS10-S1

TOTAL Metals

Lot-Sample #. Date Sampled. % Moisture	: 10/23/09		Received.	.: 10/24/09	Matrix:	SO
		REPORTI			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
Prep Batch #.	: 9299021					
Cadmium	0.95	0.61	mg/kg	SW846 6010B	10/26-10/27/09	LM8WC1
		Dilution Fac	ctor: 1	MDL 0.044		1
Lead	168	0.37	mg/kg	SW846 6010B	10/26-10/27/09	LM8WC1
		Dilution Fac	ctor: 1	MDL 0.23		(
NOTE (S):						

Results and reporting limits have been adjusted for dry weight.

44 -5 00

Client Sample ID: S-091023-PS-JSS10-S1

TCLP Metals

Lot-Sample #: A9J240135-009	Matrix: SO
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Date Sampled...: 10/23/09 13:30 Date Received..: 10/24/09 Leach Date....: 10/25/09 Leach Batch #..: P929801

PARAMETER	RESULT	REPORTING	G UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch F. Cadmium	: 9299013 ND	0.10 Dilution Fact	mg/L or: 1	SW846 60103	10/27-10/28/09	LM8WC1AE
Lead	ND	0.50 Dilution Fact	mg/L or: 1	SW846 6010B	10/27-10/28/09	LM8WC1AF

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091023-PS-JSS10-S1

General Chemistry

Lot-Sample #...: A9J240135-009 Work Order #...: LM8WC Matrix...... S0

Date Sampled...: 10/23/09 13:30 Date Received..: 10/24/09

% Moisture....: 18

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH

 Percent Solids
 81.5
 10.0
 %
 MCAWW 160.3 MOD
 10/27-10/28/09
 9300290

Dilution Factor: 1 MDL..... 10.0

10 -4 00

Client Sample ID: S-091023-PS-JSS10-B1

GC Semivolatiles

Lot-Sample #: A9J240135-010	Work Order ♯: LM8WD1AA	Matrix: SO
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Date Sampled...: 10/23/09 13:30 Date Received..: 10/24/09 Prep Date....: 10/26/09 Analysis Date..: 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

% Moisture....: 13 Method.....

Method....: SW846 8082

		REPORTIN	IG		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	38	ug/kg	24	
Aroclor 1221	ND	38 .	ug/kg	18	
Aroclor 1232	ND	38	ug/kg	16	
Aroclor 1242	ND	38	ug/kg	15	
Aroclor 1248	ND	38	ug/kg	20	
Aroclor 1254	44	38	ug/kg	20	
Aroclor 1260	ND	38	ug/kg	20	
	PERCENT	RECOVERY	•		
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	60	(10 - 19	<u>(6)</u>		
Decachlorobiphenyl	44	(10 - 19	19)		

NOTE (S):

Client Sample ID: S-091023-PS-JSS10-B1

TOTAL Metals

Lot-Sample #...: A9J240135-010 Matrix....: SO

Date Sampled...: 10/23/09 13:30 **Date Received..:** 10/24/09

% Moisture	.: 13					•
		REPORTIN	G		PREPARATION-	WORK
<u>PARAMETER</u>	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
Prep Batch #	.: 9299021 0.15 B	0.58	mg/kg	SW846 6010B	10/26-10/27/09	T.M8WD1
OG GALLES GALL	0.10 2	Dilution Fac		MDL 0.041	10,20 10,2.,03	12101121
Lead	186	0.35 Dilution Fac	mg/kg	SW846 6010B MDL	10/26-10/27/09	LM8WD1

NOTE(S):

B Estimated result. Result is less than RL.

Client Sample ID: S-091023-PS-JSS10-B1

TCLP Metals

Lot-Sample #...: A9J240135-010 Matrix.....: SO

Date Sampled...: 10/23/09 13:30 Date Received..: 10/24/09

Leach Date....: 10/25/09 Leach Batch #..: P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	.: 9299013					
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8WD1AE
		Dilution Facto	or: 1	MDL 0.0006	6	
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8WD1AF
		Dilution Facto	or: 1	MDL 0.0019		

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091023-PS-JSS10-B1

General Chemistry

Lot-Sample #...: A9J240135-010 Work Order #...: LM8WD Matrix.....: SO

Date Sampled...: 10/23/09 13:30 Date Received..: 10/24/09

% Moisture....: 13

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH

 Percent Solids
 86.8
 10.0
 %
 MCAWW 160.3 MOD
 10/27-10/28/09
 9300290

Dilution Factor: 1 MDL..... 10.0

Client Sample ID: S-091023-PS-SB11-B1

GC Semivolatiles

Lot-Sample #: A	9J240135-011	Work Order	#: LM8WF1AA	Matrix SO

Date Sampled...: 10/23/09 14:00 Date Received..: 10/24/09 Prep Date....: 10/26/09 Analysis Date..: 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

% Moisture....: 16 **Method.....:** SW846 8082

		REPORTIN	1G		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	39	ug/kg	25	
Aroclor 1221	N D	39	ug/kg	19	
Aroclor 1232	ND	39	ug/kg	17	
Aroclor 1242	ND	39	ug/kg	16	
Aroclor 1248	ND	39	ug/kg	20	
Aroclor 1254	ND	39	ug/kg	20	
Aroclor 1260	ND	39	ug/kg	20	
	PERCENT	RECOVERY	<u>.</u>		
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	78	(10 - 19	96)		
Decachlorobiphenyl	63	(10 - 19	99)		

NOTE(S):

Client Sample ID: S-091023-PS-SB11-B1

TOTAL Metals

Lot-Sample #. Date Sampled. % Moisture	: 10/23/09		Received.	.: 10/24/09	Matrix:	SO
		REPORTII			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
Prep Batch ‡. Cadmium	.:: 9299021 0.31 B	0.60	mg/kg	SW846 6010B	10/26-10/27/09	LM8WF1
		Dilution Fac	ctor: 1	MDL 0.043		
Lead	629	0.36 Dilution Fac	mg/kg	SW846 6010B MDL	10/26-10/27/09	LM8WF1

Results and reporting limits have been adjusted for dry weight.

NOTE (S):

B Estimated result. Result is less than RL.

Client Sample ID: S-091023-PS-SB11-B1

TCLP Metals

Date Sampled...: 10/23/09 14:00 Date Received..: 10/24/09

Leach Date....: 10/25/09 Leach Batch #..: P929801

REPORTING PREPARATION-WORK METHOD PARAMETER RESULT LIMIT UNITS ANALYSIS DATE ORDER # Prep Batch #...: 9299013 Cadmium ND 0.10 mg/L SW846 6010B 10/27-10/28/09 LM8WF1AE Dilution Factor: 1 MDL..... 0.00066

Lead ND 0.50 mg/L SW846 6010B 10/27-10/28/09 LM8WF1AF

Dilution Factor: 1 MDL...... 0.0019

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091023-PS-SB11-B1

General Chemistry

Lot-Sample #...: A9J240135-011 Work Order #...: LM8WF Matrix...... S0

Date Sampled...: 10/23/09 14:30 **Date Received..:** 10/24/09

% Moisture....: 16

PARAMETER RESULT RL UNITS METHOD ANALYSIS DATE BATCH PARAMETER 83.6 10.0 2 MCAWW 160.3 MOD 10/27-10/28/09 9300290

Percent Solids 83.6 10.0 % MCAWW 160.3 MOD 10/27-10/28/09 9300290

Dilution Factor: 1 MDL...... 10.0

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Conestoga-Rovers & Associates, Inc.

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Client Sample ID: W-091023-PS-RB1

GC Semivolatiles

Lot-Sample #: A9J240135-012	Work Order #: LM8WG1AA	Matrix WQ
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Date Sampled...: 10/23/09 11:30 Date Received..: 10/24/09 **Prep Date....:** 10/27/09 Analysis Date..: 10/28/09

Prep Batch #...: 9300037

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Dilution Factor: 1 Method....: SW846 8082

		REPORTIN	I G		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	1.0	ug/L	0.17	
Aroclor 1221	ND	1.0	ug/L	0.13	
Aroclor 1232	N D	1.0	ug/L	0.16	
Aroclor 1242	ND	1.0	ug/L	0.22	
Aroclor 1248	ND	1.0	ug/L	0.10	
Aroclor 1254	ND	1.0	ug/L	0.16	
Aroclor 1260	ND	1.0	ug/L	0.17	
	PERCENT	RECOVERY	<u>.</u>		
SURROGATE	RECOVERY	LIMITS			
		100			

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Tetrachloro-m-xylene	100	(27 - 130)
Decachlorobiphenyl	63	(10 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: W-091023-PS-RB1

TOTAL Metals

Lot-Sample #...: A9J240135-012
Date Sampled...: 10/23/09 11:30 Date Received..: 10/24/09 Matrix....: WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch	9299012					
Cadmium	ND	5.0	ug/L	SW846 6010B	10/26-10/28/09	LM8WG1A
		Dilution Fact	or: 1	MDL 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	10/26-10/28/09	LM8WG1A
		Dilution Fact	or: 1	MDL 1.9		



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QUALITY CONTROL SECTION

GC Semivolatiles

Client Lot #...: A9J240135

Work Order #...: LM9V91AA

Matrix....: SOLID

MB Lot-Sample #: A9J260000-154

Prep Date....: 10/26/09

Analysis Date..: 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

REPORTING

PARAMETER	RESULT	LIMIT_	UNITS	METHOD	_
Aroclor 1016	ND	33	ug/kg	SW846 8082	-
Aroclor 1221	ND	33	ug/kg	SW846 8082	
Aroclor 1232	ND	33	ug/kg	SW846 8082	
Aroclor 1242	ND	33	ug/kg	SW846 8082	
Aroclor 1248	ND	33	ug/kg	SW846 8082	
Aroclor 1254	ND	33	ug/kg	SW846 8082	
Aroclor 1260	ND	33	ug/kg	SW846 8082	
	PERCENT	RECOVERY			
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	85	(10 - 1)	96)		
Decachlorobiphenyl	114	(10 - 1)	99)		

NOTE(S):

GC Semivolatiles

Client Lot #...: A9J240135

Work Order #...: LNAWK1AA

Matrix..... WATER

MB Lot-Sample **#:** A9J270000-037

Prep Date....: 10/27/09

Analysis Date..: 10/28/09

Prep Batch #...: 9300037

Dilution Factor: 1

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11/4

REPORTING

PARAMETER	RESULT	LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082
	PERCENT	RECOVER	Y	
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	94	(27 - 13)	30)	
Decachlorobiphenyl	93	(10 - 12	27)	

NOTE (S):

TOTAL Metals

Client Lot	: A9J24013	5			Matrix WATER
PARAMETER	RESULT	REPORTI	NG <u>UNITS</u>	METHOD	PREPARATION- WORK ANALYSIS DATE ORDER
MB Lot-Sampl	Le #: A9J26000	0-012 Prep 1	Batch #:	9299012	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/26-10/27/09 LM9M81į
		Dilution Fac	ctor: 1		•
Lead	ND	3.0	ug/L	SW846 6010B	10/26-10/27/09 LM9M81
		Dilution Fac	ctor: 1		•
NOTE (S):					

TOTAL Metals

id	Client Lot #: A9J240135				Ma	Matrix: SOLID			
Na)	PARAMETER	RESULT	REPORTI	NG <u>UNITS</u>	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #		
	MB Lot-Samp	ole #: A9J26000	00-021 Prep 1	Batch #:	9299021				
	Cadmium	ND	0.50	mg/kg	SW846 6010B	10/26-10/27/09	LM9NV1AA		
أخنأ			Dilution Fac	ctor: 1					
	Lead	ND	0.30	mg/kg	SW846 6010B	10/26-10/27/09	LM9NV1AC		
₩			Dilution Fac	ctor: 1					
	NOTE (C) .								

TCLP Metals

Client Lot	A9J24 0135	5			Matrix So	OLID
		REPORTI	NG		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
-	le ‡: A9J250000	_				
Cadmium	ND	0.10		SW846 6010B	10/27/09	LM9MM1
		Dulution Fac	ctor: 1			
Lead	ND	0.50	mg/L	SW846 6010B	10/27/09	LM9MM1
		Dulution Fac	ctor: 1			
NOTE (S):						

TCLP Metals

Client Lot : A9J240135				Matrix: SOLID			
PARAMETER	RESULT	REPORTIN LIMIT	IG UNITS	METHO	D	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Samp	le #: A9J26000	00-013 Prep H	Batch #:	9299013			
Cadmium	ND	0.10	mg/L	SW846	6010B	10/27/09	LM9NA1AA
		Dilution Fac	tor: 1				
Lead	ND	0.50	mg/L	SW846	6010B	10/27/09	LM9NA1AC
TC CCC	1.2						

Calculations are performed before rounding to avoid round-off errors in calculated results.

116

General Chemistry

Client Lot #...: A9J240135

Matrix..... SOLID

PARAMETER	RESULT	REPORTING LIMIT	G UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH i
Percent Solids		Work Order	#: LNCCF1AA	MB Lot-Sample #:	A9J270000-273	
	ND	10.0	ે	MCAWW 160.3 MOD	10/27-10/28/09	930027
		Dilution Fact	or: 1			ì
Percent Solids		Work Order	#: LNCDJ1AA	MB Lot-Sample #:	A9J270000-290	
	ND	10.0	olo	MCAWW 160.3 MOD	10/27-10/28/09	930029
		Dilution Fact	or: 1			•

NOTE(S):

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J240135 Work Order #...: LM9V91AC Matrix.....: SOLID

LCS Lot-Sample#: A9J260000-154

Prep Date....: 10/26/09 Analysis Date..: 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

PERCENT RECOVERY

 PARAMETER
 RECOVERY
 LIMITS
 METHOD

 Aroclor 1016
 98
 (34 - 127)
 SW846 8082

 Aroclor 1260
 111
 (32 - 141)
 SW846 8082

PERCENT RECOVERY

SURROGATE RECOVERY

Tetrachloro-m-xylene 96 (10 - 196)

Decachlorobiphenyl 141 (10 - 199)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J240135 Work Order #...: LM9V91AC Matrix.....: SOLID

LCS Lot-Sample#: A9J260000-154

Prep Date....: 10/26/09 **Analysis Date..:** 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
Aroclor 1016	330	330	ug/kg	98	SW846 808
Aroclor 1260	330	370	ug/kg	111	SW846 808
		PERCENT	RECOVERY		
SURROGATE		RECOVERY	LIMITS		
Tetrachloro-m-xylene		96	(10 - 196)	•	
Decachlorobịphenyl		141	(10 - 199)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J240135 Work Order #...: LNAWK1AC-LCS Matrix...... WATER

LCS Lot-Sample#: A9J270000-037 LNAWK1AD-LCSD

Prep Date....: 10/27/09 Analysis Date..: 10/28/09

Prep Batch #...: 9300037

Dilution Factor: 2

	PERCENT	RECOVERY		RPD	·
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD_
Aroclor 1016	101	(44 - 119)			SW846 8082
	93	(44 - 119)	9.0	(0-30)	SW846 8082
Aroclor 1260	92	(41 - 118)			SW846 8082
	85	(41 - 118)	7.0	(0-30)	SW846 8082
		PERCENT	RECO	VERY	
SURROGATE		RECOVERY	LIMI	rs	
Tetrachloro-m-xylene		101	(27 ·	- 130)	
		102	(27 -	- 130)	
Decachlorobiphenyl		60	(10 -	- 127)	

52

(10 - 127)

NOTE(S):

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Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J240135 Work Order #...: LNAWK1AC-LCS Matrix...... WATER

LCS Lot-Sample#: A9J270000-037 LNAWK1AD-LCSD

Prep Date....: 10/27/09 **Analysis Date..:** 10/28/09

Prep Batch #...: 9300037

Dilution Factor: 2

PARAMETER Aroclor 1016	SPIKE AMOUNT 10 10	MEASURED AMOUNT 10 9.3	UNITS ug/L ug/L	PERCENT RECOVERY 101 93	RPD 9.0	METHOD SW846 8082 SW846 8082	_
Aroclor 1260	10 10	9.2 8.5	ug/L ug/L	92 85	7.0	SW846 8082 SW846 8082	
SURROGATE Tetrachloro-m-xylene	_		PERCENT RECOVERY 101 102	RECOVERY LIMITS (27 - 130	•		
Decachlorobiphenyl			60 52	(10 - 127) $(10 - 127)$, ')		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9J240135

Matrix....: WATER

RECOVERY PERCENT

PREPARATION-

PARAMETER

RECOVERY

LIMITS METHOD

ANALYSIS DATE WORK ORDER #

LCS Lot-Sample#: A9J260000-012 Prep Batch #...: 9299012

101

(80 - 120) SW846 6010B

10/26-10/27/09 LM9M81DV

Dilution Factor: 1

Cadmium

Lead

99

(80 - 120) SW846 6010B 10/26-10/27/09 LM9M81D0

Dilution Factor: 1

NOTE(S):

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot	: A9J	240135				Matrix:	WATER
PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	<u>ME</u> THOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Samp	le#: A9J	260000-01	2 Prep Bat	ch #	: 9299012		
Lead	500	503	ug/L	101	SW846 6010B	10/26-10/27/09	LM9M81DV
		D:	lution Factor	: 1			
Cadmium	50.0	49.4	ug/L	99	SW846 6010B	10/26-10/27/09	LM9M81D0
		Ď.	lution Factor	: 1			
NOTE (S):							

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

METHOD

Client Lot ...: A9J240135

Matrix..... SOLID

PARAMETER

PERCENT RECOVERY PREPARATION-

RECOVERY

LIMITS

ANALYSIS DATE WORK ORDER #

LCS Lot-Sample#: A9J260000-021 Prep Batch #...: 9299021

97

(80 - 120) SW846 6010B

10/26-10/27/09 LM9NV1AD

Dilution Factor: 1

Lead

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11

1111

half

97

(80 - 120) SW846 6010B 10/26-10/27/09 LM9NV1AE

Dilution Factor: 1

NOTE(S):

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot	#: A93	J240135					Matrix:	SOLID
PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOL)	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sam	mple#: A93	J260000-02	l Prep Ba	atch #	: 92990	021		
Cadmium	5.0	4.8	mg/kg	97	SW846	6010B	10/26-10/27/09	LM9NV1AD
		Ε	Elution Fact	or: 1				
Lead	50.0	48.4	mg/kg	97	SW846	6010B	10/26-10/27/09	LM9NV1AE
			Dalution Fact	or: 1				
NOTE (S):		·-·						

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J240135 Matrix.....: SOLID

PERCENT RECOVERY PREPARATION-

PARAMETER RECOVERY LIMITS METHOD ANALYSIS DATE WORK ORDER #

LCS Lot-Sample#: A9J260000-013 Prep Batch #...: 9299013

Cadmium 109 (50 - 150) SW846 6010B 10/27/09 LM9NA1AD

Dilution Factor: 1

Lead 107 (50 - 150) SW846 6010B 10/27/09 LM9NA1AE

Dilution Factor: 1

NOTE(S):

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot	‡: A93	J2 4 0135				Matrix	: SOLID
PARAMETER	SPIKE AMOUNT	MEASURI AMOUNT	ED UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sam	ple#: A93	J260000-	013 Prep Ba	tch #	: 9299013		
Cadmium	0.050	0.055	mg/L	109	SW846 6010B	10/27/09	LM9NA1AD
			Dilution Fact	or: 1			
Lead	0.50	0.53	mg/L	107	SW846 6010B	10/27/09	LM9NA1AE
			Dilution Fact	or: 1			
NOTE (S):							

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J240135 Work Order #...: LM8V91CH-MS Matrix.....: SO

MS Lot-Sample **‡**: A9J240135-007 LM8V91CJ-MSD

Date Sampled...: 10/23/09 11:40 Date Received..: 10/24/09
Prep Date....: 10/26/09 Analysis Date..: 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

	PERCENT	RECOVERY		RPD	
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD
Aroclor 1016	87	(10 - 199)			SW846 8082
	86	(10 - 199)	1.3	(0-30)	SW846 8082
Aroclor 1260	92	(10 - 199)			SW846 8082
	92	(10 – 199)	0.65	(0-30)	SW846 8082
		PERCENT		RECOVERY	
SURROGATE		RECOVERY		LIMITS	
Tetrachloro-m-xylene		83		(10 - 19)	 6)
-		83		(10 - 19	6)
Decachlorobiphenyl		95		(10 - 19	9)
		100		(10 - 19	9)

NOTE (S) .

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Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J240135 Work Order #...: LM8V91CH-MS Matrix...... SO

MS Lot-Sample #: A9J240135-007 LM8V91CJ-MSD

Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09 **Prep Date.....:** 10/26/09 **Analysis Date..:** 10/28/09

Prep Batch #...: 9299154

Dilution Factor: 1

	SAMPLE	SPIKE	MEASRD		PERCNT		
PARAMETER	TNUOMA	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD
Aroclor 1016	ND	360	310	ug/kg	87		SW846 8082
	ND	360	310	ug/kg	86	1.3	SW846 8082
Aroclor 1260	ND	360	330	ug/kg	92		SW846 8082
	ND	360	330	ug/kg	92	0.65	SW846 8082

	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	83	(10 - 196)		
	83	(10 - 196)		
Decachlorobiphenyl	95	(10 - 199)		
	100	(10 - 199)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Binli	Client Lot Date Sample		10135 3/09 11:40 Date R	eceived.	Matrix	: SO	
list	PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
	MS Lot-Samp	le #: A9J24	10135-007 Prep B	atch #	.: 9299021		
li dà	Cadmium	85	(75 - 125)		SW846 6010B	10/26-10/27/09	LM8V91AF
		86	(75 - 125) 1.0	(0-20)	SW846 6010B	10/26-10/27/09	LM8V91AG
			Dilution Fac	tor: 1			
1M							
	Lead	87	(75 - 125)		SW846 6010B	10/26-10/27/09	LM8V91AJ
		89	(75 - 125) 2.7	(0-20)	SW846 6010B	10/26-10/27/09	LM8V91AK
Ì.			Dilution Fac	tor: 1			
	NOTE (S):						

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lo	_		A9J240135 L0/23/09 11:40 Date Received: 10/24/09						Matrix: SO ■			
PARAMETEI	SAMPLE R AMOUNT		MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOI	D	PREPARATION- ANALYSIS DATE	WORK ORDER		
MS Lot-Sa Cadmium	ample #:	A9J2401	35-007	Prep Batch	#: 9:	29902	1			L u		
	ND	5.4	4.6	mg/kg	85		SW846	6010B	10/26-10/27/09	LM8V91		
	ND	5.4	4.6	mg/kg	86	1.0	SW846	6010B	10/26-10/27/09	LM8V9		
			Dlut	ion Factor: 1						i de		
Lead												
	5.0	54.0	51.8	mg/kg	87		SW846	6010B	10/26-10/27/09	LM8V9		
	5.0	54.0	53.2	mg/kg	89	2.7	SW846	6010B	10/26-10/27/09	LM8V91		
			Dilut	ion Factor: 1								

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J240135 Matrix...... SO

Date Sampled...: 10/23/09 11:40 Date Received..: 10/24/09

	PERCENT	RECOVERY	RPD		PREPARATION-	WORK
PARAMETER	RECOVERY	LIMITS RPI	<u>LIMITS</u>	METHOD	ANALYSIS DATE	ORDER #
MS Lot-Samp	ole #: A9J24	10135-007 Prep	Batch #	: 9299013		
Leach Date.	: 10/25	5/09 Leach	Batch #	: P929801		
Cadmium	104	(50 - 150)		SW846 6010B	10/27-10/28/09	LM8V91AM
	106	(50 - 150) 1.8	(0-20)	SW846 6010B	10/27-10/28/09	LM8V91AN
		Dilution Fa	ctor: 5			
Lead	102	(50 - 150)		SW846 6010B	10/27-10/28/09	T.M8V/91A
zea u	104	(50 - 150) 1.8	(0-20)	SW846 6010B	10/27-10/28/09	· · · · · •
	104	,		2M040 0010D	10/2/-10/20/03	LINOVAIAN
		Dilution Fa	ictor: 5			

NOTE (S):

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MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #	.: A9J240)135					Matr	ix SO	-
Date Sampled	.: 10/23/	09 11:40	Date Rec	eived:	10/24/	09			
SAMP: PARAMETER AMOU	LE SPIKE	MEASRD AMOUNT		PERCN RECVR		METHO	.	PREPARATION- ANALYSIS DATE	WORK ORDER
THURBIBLE AROUN	7411	- 11100111		KECVK	<u> </u>	пвтпо			ORBER
MS Lot-Sample	#: A9J240	135-007	Prep Bat	ch #:	929901	3			
Leach Date	.: 10/25/	09	Leach Ba	tch #:	P92980	1			
Cadmium									
ND	1.0	1.0	mg/L	104		SW846	6010B	10/27-10/28/09	LM8V9
ND	1.0	1.1	mg/L	106	1.8	SW846	6010B	10/27-10/28/09	LM8V9
		Dili	ition Factor	: 5					
Lead									
ND	5.0	5.1	mg/L	102		SW846	6010B	10/27-10/28/09	LM8V91
ND	5.0	5.2	mg/L	104	1.8	SW846	6010B		
		Di.11	ution Factor	: 5					
NOTE (S):									

 $\label{lem:calculations} \textbf{Calculations are performed before rounding to avoid round-off errors in calculated results.}$

General Chemistry

Client Lot #...: A9J240135 Work Order #...: LM6P0-SMP Matrix.....: SOLID

LM6P0-DUP

Date Sampled...: 10/22/09 11:25 Date Received..: 10/23/09

% Moisture....: 13

	DUPLICATE			RPD		PREPARATION-	PREP
PARAM RESULT	RESULT	UNITS	RPD	LIMIT	METHOD	ANALYSIS DATE	BATCH #
Percent Solids					SD Lot-Sample #:	A9J230184-007	
87.4	88.3	용	1.1	(0-20)	MCAWW 160.3 MOD	10/27-10/28/09	9300273

Dilution Factor: 1

General Chemistry

Client Lot #...: A9J240135 Work Order #...: LM6RG-SMP Matrix.....: SOLID

LM6RG-DUP

Date Sampled...: 10/22/09 14:20 Date Received..: 10/23/09

% Moisture....: 17

						,
DUPLICATE			RPD		PREPARATION-	PREP
RESULT	UNITS	RPD	LIMIT	METHOD	ANALYSIS DATE	BATC!
				SD Lot-Sample #:	A9J230184-011	
74.0	ક	11	(0-20)	MCAWW 160.3 MOD	10/27-10/28/09	9300!
	DUPLICATE RESULT	DUPLICATE RESULT UNITS	DUPLICATE RESULT UNITS RPD	DUPLICATE RPD RESULT UNITS RPD LIMIT	DUPLICATE RPD RESULT UNITS RPD LIMIT METHOD SD Lot-Sample #:	DUPLICATERPDPREPARATION-RESULTUNITSRPDLIMITMETHODANALYSIS DATESD Lot-Sample #: A9J230184-011

Dulution Factor: 1

General Chemistry

Client Lot #...: A9J240135 Work Order #...: LM3XR-SMP Matrix.....: SOLID

LM3XR-DUP

Date Sampled...: 10/21/09 09:45 Date Received..: 10/22/09

% Moisture....: 9.0

RPD DUPLICATE PREPARATION-PREP PARAM RESULT RESULT UNITS RPD LIMIT METHOD ANALYSIS DATE BATCH # Percent Solids SD Lot-Sample #: A9J220200-004 91.0 91.3 ક 0.37 (0-20) MCAWW 160.3 MOD 10/27-10/28/09 9300290

Dilution Factor: 1

General Chemistry

Client Lot #...: A9J240135 Work Order #...: LM8V9-SMP Matrix.....: SO

LM8V9-DUP

Date Sampled...: 10/23/09 11:40 Date Received..: 10/24/09

% Moisture....: 7.4

	DUPLICATE			RPD		PREPARATION-	PREP
PARAM RESULT	RESULT	UNITS	RPD	LIMIT	METHOD	ANALYSIS_DATE	BATC!
Percent Solids					SD Lot-Sample #:	A9J240135-007	
92.7	92.4	95	0.24	(0-20)	MCAWW 160.3 MOD	10/27-10/28/09	93002

Dilution Factor: 1

Chain of Custody Record

TestAmerica

TestAmerica Laboratory location:

Client Contact	Client Pr		anager:				Site C	Contac		R	_	-		1	Lab	Conta	ct:	_						TestAmerica Laboratories, l
CRA			15 VO	155	100	-									Tit									1985
ddress:	Telephon	Telephone:					Telep	Telephone: Telephone:														of COCs		
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651-639-0913 reject Name: Jefferson Yard		Te	nent/Carrier:	0	ver	Nigh	+			Dat M	weeks week				Total	34	27	3						
oject Number: 054633	Shipping	Tracki	ng No:		Mate	200100000000000		e e]	2 days 1 day				. PLBS	6 4	0	Cd						Jen/SEG Mo.
Sample Identification	Sample	Date	Sample Time	Air	Sediment	Other:	Н2504	HN03	нсі	NaOH	ZnAc/ NaOH	Unpres	Officer		5	Ca								Sample Specific Notes / Special Instructions:
3-091023-PS-502-BI	19/23	3/00	1145		X							1		6	X	X	2	1						
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-502-B3			1155		a			18 7				T		\prod	X	1	2	x						
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-502-53			1210		X										1	1	ac	V						
-S04-B1			1140		X										X	1	1	x						Ms/mso
-so4-BZ		11111	1140		A			100				1			X	1	of	×						
-55510-51			1330		×							1			K	A	d	de						
-JSS10-B1	V	/	1330		X							V		1	1	X	a	d						
	dn Irritant		☐ Poison B	12/14		Jnknown	Sa	mple l	Disposal Return to	l (A fe	e may	be ass	essed i Disp	f sample osal By	es are r	etaine	ed long	er tha	n 1 mo	nth)	R		_ Month	us
ectal Instructions/QC Requirements & Comments:																								
linquished by:	Company	C	RA	D	ate/Time	23/	09	1	630	Receiv	ed by:								Comp	oany:				Date/Time:
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linquished by:	Company	<i>y</i> :	A.S.A.V.	D	ate/Time				1	Receiv	ed in L	abora	tory b	y:	>00<	A Les			1	pany:	a	mon	ura	Date/Time: 10:00

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Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid Other:	H2S04	HN03	HCI	NaOH	ZnAc/ NaOH	Unpres Other:		707	4	72	72			Sample Specific Note Special Instruction
5-091023-PS-SB11-B1	10/23/00	71400		X							1	G	X	X	X				
TSCA SOIL	1	1135		a		7					x					X			
TS CA STABILIZED		1135		1							K		1			X			
NOW-TSCA STABILIZED		1415		×							of					X			
W-091023-PS-RBI	V	1130	X				×				X	1	X	X					
										-12									
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													1	13					
Possible Hazard Identification [M] Non-Hazard Flammable Skin	Irritant [□ Poison B		7	Unknown		nple Di				be assessed	if sample sposal By				er than 1 n	nonth)	Months	

Received by:

Received by:

Received in Laboratory by:

Kisa mills

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Date/Time:

Date/Time:

10-23-09 Date/Time:

CRA

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Relinquished by:

Relinquished by:

Relinquished by:

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Date/Time:

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Test america

Client <u>CRA</u>		y: Yhisa mi	200
Cooler Received on		(Signatur	e)
FedEx X UPS DHL	☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Con	irier 🔲 Other	
TestAmerica Cooler #l	Multiple Coolers Foam Box Client Coolers		
If YES, Quantity		es [☑ No □ N	A 🔲
		es 🛛 No 🗌 N	A 🔲
Were custody seals or	• •	es 🗌 No 🛛	
If YES, are there any	•		
		es 🛛 No 🗌	
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	i: Bubble Wrap 🛛 Foam 🗌 None 🗌 Other 🖎 🗪		
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1. Were air bubbles >6 m	•		A 🔀
•		s 🛭 No 🗌	_
	ent in the cooler(s)? Yes 🔲 No 🔼 Were VOAs on the C		
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Concerning	•		
4. CHAIN OF CUSTOD	`````````````````````````````````````		
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4. CHAIN OF CUSTOD	`````````````````````````````````````		
14. CHAIN OF CUSTODY The following discrepancie	es occurred:		
14. CHAIN OF CUSTODY The following discrepancie 15. SAMPLE CONDITION	es occurred:	ded halding time h	
14. CHAIN OF CUSTODY The following discrepancie 15. SAMPLE CONDITION Sample(s)	es occurred: V		nad expired.
74. CHAIN OF CUSTODY The following discrepancie 75. SAMPLE CONDITION Sample(s) Sample(s)	v were received after the recommer were re	ceived in a broker	nad expired
74. CHAIN OF CUSTODY The following discrepancie 75. SAMPLE CONDITION Sample(s) Sample(s)	were received with bubble >	eceived in a broker 6 mm in diameter.	nad expired
14. CHAIN OF CUSTODY The following discrepancie 15. SAMPLE CONDITION Sample(s) Sample(s) Sample(s) 16. SAMPLE PRESERVA	were received after the recommer were received with bubble >	eceived in a broker 6 mm in diameter.	nad expired n container. (Notify PM)
14. CHAIN OF CUSTODY The following discrepancie 15. SAMPLE CONDITION Sample(s) Sample(s) Sample(s) 16. SAMPLE PRESERVA Sample(s)	were received after the recommer were received with bubble > ATION were further	eceived in a broker 5 mm in diameter. preserved in Sam	nad expired n container. (Notify PM)
14. CHAIN OF CUSTODY The following discrepancie 15. SAMPLE CONDITION Sample(s) Sample(s) Sample(s) Sample(s) Sample(s) Receiving to meet recomm	were received after the recommer were received after the recommer were re were received with bubble >0 ATION were further mended pH level(s). Nitric Acid Lot# 031909-HNO ₃ ; Sulfuric Acid L	preserved in Samport 800 preserved 800 pre	nad expired n container. (Notify PM) ple Sodium
14. CHAIN OF CUSTODY The following discrepancie 15. SAMPLE CONDITION Sample(s) Sample(s) Sample(s) Sample(s) Receiving to meet recommendations	were received after the recommer were received after the recommer were received with bubble >0 ATION were further mended pH level(s). Nitric Acid Lot# 031909-HNO ₃ , Sulfuric Acid LOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc	preserved in Samport 800 preserved 800 pre	nad expired. n container. (Notify PM) ple Sodium
74. CHAIN OF CUSTODY The following discrepancie 75. SAMPLE CONDITION Sample(s) Sample(s) Gample(s) Receiving to meet recommy droxide Lot# 100108 -NeC CH3COO)2ZN/NeOH. What	were received after the recommer were received with bubble > ATION were received with bubble > ATION were further mended pH level(s). Nitric Acid Lot# 031909-HNO ₃ ; Sulfuric Acid L OH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Int time was preservative added to sample(s)?	preserved in Samport# 082509-H ₂ SO ₄ , Acetate Lot# 100100	nad expired n container. (Notify PM) ple Sodium 8-
7. CHAIN OF CUSTODY The following discrepancie 7. SAMPLE CONDITION Sample(s) Sample(s) 6. SAMPLE PRESERVA Sample(s) Receiving to meet recommy droxide Lot# 100108 - NeC CH3COO)2ZN/NeOH. What	were received after the recommer were received with bubble > ATION were received with bubble > ATION were further mended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfuric Acid L OH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc at time was preservative added to sample(s)? pH	preserved in Samport# 082509-H ₂ SO ₄ , Acetate Lot# 100100	nad expired n container. (Notify PM) ple Sodium 8-
The following discrepancies (5. SAMPLE CONDITION Sample(s) Sample(s) 6. SAMPLE PRESERVA Sample(s) Receiving to meet recommendation for the condition of t	were received after the recommer were received with bubble > ATION were received with bubble > ATION were further mended pH level(s). Nitric Acid Lot# 031909-HNO ₃ ; Sulfuric Acid L OH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Int time was preservative added to sample(s)?	preserved in Samport# 082509-H2SO4, Acetate Lot# 100100	nad expired. n container. (Notify PM) ple Sodium 8-
The following discrepancies (5. SAMPLE CONDITION Sample(s) Sample(s) 6. SAMPLE PRESERVA Sample(s) Receiving to meet recommendation for the condition of t	were received after the recommer were received with bubble > ATION were received with bubble > ATION were further mended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfuric Acid L OH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc at time was preservative added to sample(s)? pH	preserved in Samport# 082509-H ₂ SO ₄ , Acetate Lot# 100100	nad expired n container. (Notify PM) ple Sodium 8-
The following discrepancies (5. SAMPLE CONDITION Sample(s) Sample(s) 6. SAMPLE PRESERVA Sample(s) Receiving to meet recommendation for the condition of t	were received after the recommer were received with bubble > ATION were received with bubble > ATION were further mended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfuric Acid L OH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc at time was preservative added to sample(s)? pH	preserved in Samport# 082509-H ₂ SO ₄ , Acetate Lot# 100100	nad expired. n container. (Notify PM) ple Sodium 8-
The following discrepancies The following di	were received after the recommer were received with bubble > ATION were received with bubble > ATION were further mended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfuric Acid L OH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc at time was preservative added to sample(s)? pH	preserved in Samport# 082509-H ₂ SO ₄ , Acetate Lot# 100100	nad expired. n container. (Notify PM) ple Sodium 8-
The following discrepancies 15. SAMPLE CONDITION Sample(s) Sample(s) 6. SAMPLE PRESERVA Sample(s) Receiving to meet recomn Hydroxide Lot# 100108 -NeC CH3COO)2ZN/NeOH. What	were received after the recommer were received with bubble > ATION were received with bubble > ATION were further mended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfuric Acid L OH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc at time was preservative added to sample(s)? pH	preserved in Samport# 082509-H ₂ SO ₄ , Acetate Lot# 100100	nad expired. n container. (Notify PM) ple Sodium 8-
The following discrepancies 15. SAMPLE CONDITION Sample(s) Sample(s) 6. SAMPLE PRESERVA Sample(s) Receiving to meet recomn Hydroxide Lot# 100108 -NeC CH3COO)2ZN/NeOH. What	were received after the recommer were received with bubble > ATION were received with bubble > ATION were further mended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfuric Acid L OH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc at time was preservative added to sample(s)? pH	preserved in Samport# 082509-H ₂ SO ₄ , Acetate Lot# 100100	nad expired n container. (Notify PM) ple Sodium 8-

TestAmerica Cooler Receipt Form/Narrative North Canton Facility Client ID рН Initials Date Method Coolant Cooler Temp °C Discrepancies Cont'd

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END OF REPORT



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Grant Anderson Conestoga-Rovers & Associates, Inc. PROJECT NO. 54633 Jefferson Yard

SAMPLE SUMMARY

<u>WO #</u>	LABORATORY ID	SAMPLE IDENTIFICATION
LNDX2	A9J280123-001	S-091027-PS-JSS7-B1
LNDX7	A9J280123-002	S-091027-PS-JSS8-B1
LNDX8	A9J280123-003	S-091027-PS-JSS8-B2
LNDX9	A9J280123-004	S-091027-PS-JSS9-S1
LND0A	A9J280123-005	S-091027-PS-JSS9-S2
LND0C	A9J280123-006	S-091027-PS-JSS9-S3
LND0D	A9J280123-007	S-091027-PS-JSS9-B1
LND0E	A9J280123-008	S-091027-PS-JSS9-B2
LND0F	A9J280123-009	S-091027-PS-JSS9-B3 dup of JSS9-B2
LND0G	A9J280123-010	S-091027-PS-JB1-B1
LND0H	A9J280123-011	W-091027-PS-RB2

TESTAMERICA LABORATORIES, INC.

Denise D. Heckler

Project Manager

Denise DHeckler

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November 04, 2009

TestAmerica Laboratories, Inc.

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Project Manager

CASE NARRATIVE

A9J280123

The following report contains the analytical results for ten solid samples and one water sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 54633. The samples were received October 28, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.6°C.

ألسان

POLYCHLORINATED BIPHENYLS-8082

The matrix spike/matrix spike duplicate(s) for batch(es) 9301359 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The QC batch associated with batch 9302012 for the Metals analysis is reported without an MS/MSD. The MS/MSD was performed on another client's sample within the batch. The MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. Ongoing evaluation and monitoring of the LCS provides long-term precision and accuracy for the method.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

OC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals
contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be
twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants
listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone		Lead, Calcium,	
		Magnesium, Potassium,	
		Sodium, Barium,	
		Chromium, Manganese	

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to recet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request. California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

EXECUTIVE SUMMARY - Detection Highlights

A9J280123

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-091027-PS-JSS7-B1 10/27/09 13:37	001			· · · · · · · · · · · · · · · · · · ·
Lead	5.5	0.32	mg/kg	SW846 6010B
Cadmium	0.18 B	0.53	mg/kg	SW846 6010B
Percent Solids	93.7	10.0	olo	MCAWW 160.3 MOD
S-091027-PS-JSS8-B1 10/27/09 13:42	002			•
Lead	4.8	0.32	mg/kg	SW846 6010B
Cadmium	0.16 B	0.54	mg/kg	SW846 6010B
Percent Solids	93.2	10.0	9	MCAWW 160.3 MOD
S-091027-PS-JSS8-B2 10/27/09 13:43	003			•
Aroclor 1248	2200	390	ug/kg	SW846 8082
Aroclor 1260	430	390	ug/kg	SW846 8082
Lead	25.6	0.35	mg/kg	SW846 6010B
Cadmium	1.0	0.59	mg/kg	SW846 6010B
Percent Solids	85.4	10.0	olo	MCAWW 160.3 MOD
S-091027-PS-JSS9-S1 10/27/09 14:00	004			r e
Lead	20.8	0.36	mg/kg	SW846 6010B
Cadmium	1.9	0.60	mg/kg	SW846 6010B
Percent Solids	83.1	10.0	%	MCAWW 160.3 MOD
S-091027-PS-JSS9-S2 10/27/09 14:05	005			•
Aroclor 1242	130	36	ug/kg	SW846 8082
Aroclor 1254	90	36	ug/kg	SW846 8082
Lead - TCLP	0.69	0.50	mg/L	SW846 6010B
Lead	464	0.33	mg/kg	SW846 6010B
Cadmium	5.6	0.55	mg/kg	SW846 6010B
Percent Solids	91.3	10.0	00	MCAWW 160.3 MOD
S-091027-PS-JSS9-S3 10/27/09 14:06	006			
Aroclor 1260	84	38	ug/kg	SW846 8082 .
Lead	281	0.34	mg/kg	SW846 6010B
Cadmium	2.2	0.57	mg/kg	SW846 6010B
Percent Solids	88.0	10.0	%	MCAWW 160.3 MOD
(Conti	nued on next	: page)		•

EXECUTIVE SUMMARY - Detection Highlights

A9J280123

llad	PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
	S-091027-PS-JSS9-B1 10/27/09 14:08	007			
haif	Lead	12.8	0.34	mg/kg	SW846 6010B
	Cadmium	0.096 B	0.57	mg/kg	SW846 6010B
	Percent Solids	87.3	10.0	ું	MCAWW 160.3 MOD
l mil					
	S-091027-PS-JSS9-B2 10/27/09 14:20	800			
l(ail-	Aroclor 1242	250	38	ug/kg	SW846 8082
	Aroclor 1254	210	38	ug/kg	SW846 8082
	Lead	343	1.7	mg/kg	SW846 6010B
n 1	Ca.dmium	1.1	0.57	mg/kg	SW846 6010B
ibol	Percent Solids	87.7	10.0	96	MCAWW 160.3 MOD
	S-091027-PS-JSS9-B3 10/27/09 14:20	009			
twir	Aroclor 1242	280	37	ug/kg	SW846 8082
	Aroclor 1254	180	37	ug/kg	SW846 8082
	Lead	628	0.34	mg/kg	SW846 6010B
land.	Cadmium	2.4	0.56	mg/kg	SW846 6010B
	Percent Solids	89.3	10.0	8	MCAWW 160.3 MOD
İlad	S-091027PS-JB1-B1 10/27/09 14:15	010			
	Lead	3.3	0.32	mg/kg	SW846 6010B
lad.	Cadmium	0.059 B	0.53	mg/kg	SW846 6010B
	Percent Solids	93.6	10.0	8	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A9J280123

PARAMETER	3	ANALYTICAL METHOD
PCBs by S Total Res	ely Coupled Plasma (ICP) Metals GW-846 8082 sidue as Fercent Solids ductively Coupled Plasma (ICP) Metals	SW846 6010B SW846 8082 MCAWW 160.3 MOD SW846 6010B
Reference	es:	
MCAWW	"Methods for Chemical Analysis of Water EPA-600/4-79-020, March 1983 and subsec	•
SW846	"Test Methods for Evaluating Solid Wast Methods", Third Edition, November 1986	-

SAMPLE SUMMARY

A9J280123

WO # 5	SAMPLE	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LNDX2	001	S-091027-PS-JSS7-B1	10/27/09	13:3
LNDX7	002	S-091027-PS-JSS8-B1	10/27/09	13:42
LNDX8	003	S-091027-PS-JSS8-B2	10/27/09	13:43
LNDX9	004	S-091027-PS-JSS9-S1	10/27/09	14:00
LND0A	005	S-091027-PS-JSS9-S2	10/27/09	14:05
LND0C	006	S-091027-PS-JSS9-S3	10/27/09	14:06
LND0D	007	S-091027-PS-JSS9-B1	10/27/09	14:08
LND0E	800	S-091027-PS-JSS9-B2	10/27/09	14:20
IND0F	009	S-091027-PS-JSS9-B3	10/27/09	14:20
LND0G	010	S-091027-PS-JB1-B1	10/27/09	14:15
LND0H	011	W-091027-PS-RB2	10/27/09	13:0

NOTE(S):

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- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Client Sample ID: S-091027-PS-JSS7-B1

GC Semivolatiles

Lot-Sample #: A9J280123-001	Work Order #: LNDX21AA	Matrix: SO
-----------------------------	------------------------	------------

Date Sampled...: 10/27/09 13:37 **Date Received..:** 10/28/09 **Prep Date.....:** 10/28/09 **Analysis Date...:** 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 1

% Moisture....: 6.3 **Method.....:** SW846 8082

		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	35	ug/kg	22
Aroclor 1221	ND	35	ug/kg	17
Aroclor 1232	ND	35	ug/kg	15
Aroclor 1242	ND	35	ug/kg	14
Aroclor 1248	ND	35	ug/kg	18
Aroclor 1254	ND	35	ug/kg	18
Aroclor 1260	ND	35	ug/kg	18
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS	_	
Tetrachloro-m-xylene	60	(10 - 196)	
Decachlorobiphenyl	79	(10 - 199)	

NOTE(S):

Client Sample ID: S-091027-PS-JSS7-B1

TOTAL Metals

Lot-Sample #: A9J280123-001	Matrix: SO
-----------------------------	------------

Date Sampled...: 10/27/09 13:37 Date Received..: 10/28/09

% Moisture....: 6.3

		Dilution Fac	ctor: 1	MDL 0.20		
Lead	5.5	0.32	mg/kg	SW846 6010B	10/29-10/30/09	LNDX21AD
		Dilution Fac	ctor: 1	MDL 0.038		
Prep Batch # Cadmium	: 9302031 0.18 B	0.53	mg/kg	SW846 6010B	10/29-10/30/09	LNDX21AC
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
		REPORTI	NG		PREPARATION-	WORK

NOTE (S):

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B Estimated result. Result is less than RL.

Client Sample ID: S-091027-PS-JSS7-B1

TCLP Metals

Date Sampled	A9J28012 10/27/09 10/29/09	13:37 Date		.: 10/28/09 .: P930204	Matrix:	so
		REPORTIN	1G		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
Prep Batch #	: 9303020					
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNDX21
		Dilution Fac	tor: 1	MDL 0.0	00066	١
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNDX21
		Filution Fac	tor: 1	MDL 0.0	0019	i
NOTE (S) ·						

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091027-PS-JSS7-B1

General Chemistry

Lot-Sample #...: A9J280123-001 Work Order #...: LNDX2 Matrix.....: SO

Date Sampled...: 10/27/09 13:37 Date Received..: 10/28/09

% Moisture....: 6.3

PREPARATION- PREP
PARAMETER RESULT RL UNITS METHOD ANALYSIS DATE BATCH #

Percent Solids 93.7 10.0 % MCAWW 160.3 MOD 10/28-10/29/09 9301302

MDL..... 10.0

sint'

Dilution Factor: 1

Client Sample ID: S-091027-PS-JSS8-B1

GC Semivolatiles

Lot-Sample #: A9J280123-002	Work Order #: LNDX71AA	Matrix SO
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Date Sampled...: 10/27/09 13:42 Date Received..: 10/28/09
Prep Date....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 1

% Moisture....: 6.8 **Method.....:** SW846 8082

		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	35	ug/kg	23
Aroclor 1221	ND	35	ug/kg	17
Aroclor 1232	ND	35	ug/kg	15
Aroclor 1242	ND	35	ug/kg	14
Aroclor 1248	ND	35	ug/kg	18
Aroclor 1254	ND	35	ug/kg	18
Aroclor 1260	ND	35	ug/kg	18
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS	_	
Tetrachloro-m-xylene	60	(10 - 196))	
Decachlorobiphenyl	90	(10 - 199)	•	

NOTE(S):

Client Sample ID: S-091027-PS-JSS8-B1

TOTAL Metals

Lot-Sample #:	: A9J280123-	002			Matrix:	SO
Date Sampled:	: 10/27/09 1	3:42 Date R	eceived.	.: 10/28/09		
% Moisture	6.8					
		REPORTING			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Prep Batch #:	9302031					
Cadmium	0.16 B	0.54	mg/kg	SW846 6010B	10/29-10/30/09	LNDX71AC
		Dilution Facto	or: 1	MDL 0.039		

SW846 6010B

MDL..... 0.20

mg/kg

10/29-10/30/09 LNDX71AD

NOTE (S):

Lead

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Results and reporting limits have been adjusted for dry weight.

4.8

0.32

Dilution Factor: 1

B Estimated result. Result is less than RL.

Client Sample ID: S-091027-PS-JSS8-B1

TCLP Metals

Lot-Sample #. Date Sampled. Leach Date	: 10/27/09	13:42 Date		.: 10/28/09 .: P930204	Matrix:	so
PARAMETER	RESULT	REPORTII LIMIT	NG UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER
Prep Batch #.	: 9303020					·
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNDX714
		Cilution Fac	ctor: 1	MDL 0.0	00066	i
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNDX71
		Dilution Fac	ctor: 1	MDL 0.0	0019	Ĺ
NOTE(S):						

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091027-PS-JSS8-B1

General Chemistry

Lot-Sample 1...: A9J280123-002 Work Order 1...: LNDX7 Matrix...... SO

Date Sampled...: 10/27/09 13:42 Date Received..: 10/28/09

% Moisture....: 6.8

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 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Percent Solids
 93.2
 10.0
 %
 MCAWW 160.3 MOD
 10/28-10/29/09
 9301302

Dilution Factor: 1 MDL..... 10.0

17 of 92

Client Sample ID: S-091027-PS-JSS8-B2

GC Semivolatiles

Date Sampled: A93 Prep Date: 107 Prep Batch #: 936 Dilution Factor: 10 % Moisture: 15	/27/09 13:43 Date /28/09 Anal 01359		/28/09 /29/09	Matrix SO
o moracure	FIC CIT	Sur Control of the Co	710 0002	
		REF	ORTING	
PARAMETER	RESU	LT LIM	IIT UNITS	MDL
Aroclor 1016	ND	390	ug/kg	250
Aroclor 1221	ИД	390	ug/kg	190
Aroclor 1232	ND	390	ug/kg	160
Aroclor 1242	ND	390	ug/kg	150
Aroclor 1248	2200	390	ug/kg	200
Aroclor 1254	ND	390	ug/kg	200
Aroclor 1260	430	390	ug/kg	200
	PERC	ENT REC	COVERY	
SURROGATE	RECO	VERY LIM	IITS	
Tetrachloro-m-xylene	79 D	IL (10	- 196)	
Decachlorobiphenyl	113	DIL (10	- 199)	
NOTE (S):			1 · · · · · · · · · · · · · · · · · · ·	

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

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Client Sample ID: S-091027-PS-JSS8-B2

TOTAL Metals

Lot-Sample 1...: A9J280123-003 Matrix.....: S0

Date Sampled...: 10/27/09 13:43 Date Received..: 10/28/09

Dilution Factor: 1

% Moisture....: 15

REPORTING PREPARATION-WORK PARAMETER UNITS METHOD RESULT LIMIT ANALYSIS DATE ORDER # Prep Batch 1...: 9302031 1.0 Cadmium 0.59 mg/kg SW846 6010B 10/29-10/30/09 LNDX81AC Dilution Factor: 1 MDL..... 0.042 Lead 25.6 0.35 mg/kg SW846 6010B 10/29-10/30/09 LNDX81AD

MDL..... 0.22

NOTE (S):

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Client Sample ID: S-091027-PS-JSS8-B2

TCLP Metals

rot-Sambie #:	A9J28U123-UU3		matrix: SO
Date Sampled .	10/27/09 13:43	Date Received : 10/28/09	

 Date Sampled...:
 10/27/09 13:43
 Date Received...
 10/28/09

 Leach Date....:
 10/29/09
 Leach Batch #...
 P930204

			_			•
		REPORTI	NG		PREPARATION-	WORK ,
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
Prep Batch	9303020					•
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNDX81
		Cilution Fac	ctor: 1	MDL 0.0	00066	i
Lead	ND	0.50 Filution Fac	mg/L ctor: 1	SW846 6010B	10/30-10/31/09 0019	LNDX81

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091027-PS-JSS8-B2

General Chemistry

Lot-Sample #...: A9J280123-003 Work Order #...: LNDX8 Matrix.....: SO

Date Sampled...: 10/27/09 13:43 Date Received..: 10/28/09

% Moisture....: 15

144

1111

14

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Percent Solids
 85.4
 10.0
 %
 MCAWW 160.3 MOD
 10/28-10/29/09
 9301302

Dilution Factor: 1 MDL..... 10.0

Client Sample ID: S-091027-PS-JSS9-S1

GC Semivolatiles

Lot-Sample #: A9J280123-004	Work Order #: LNDX91AA	Matrix SO
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Date Sampled...: 10/27/09 14:00 Date Received..: 10/28/09
Prep Date....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 1

% Moisture....: 17 **Method.....:** SW846 8082

		REPORTIN	IG	
PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	25
Aroclor 1221	ND	40	ug/kg	19
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	20
Aroclor 1254	ND	40	ug/kg	20
Aroclor 1260	ND	40	ug/kg	20
	PERCENT	RECOVERY	7	
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	57	(10 - 19)	16)	
Decachlorobiphenyl	59	(10 - 19	19)	

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

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Client Sample ID: S-091027-PS-JSS9-S1

TOTAL Metals

Lot-Sample †...: A9J280123-004 Matrix.....: S0

Date Sampled...: 10/27/09 14:00 Date Received..: 10/28/09

% Moisture....: 17

 REPORTING
 PREPARATION- WORK

 PARAMETER
 RESULT
 LIMIT
 UNITS
 METHOD
 ANALYSIS DATE
 ORDER #

 Prep Batch #...: 9302031

 Cadmium
 1.9
 0.60
 mg/kg
 SW846 6010B
 10/29-10/30/09 LNDX91AC

Dilution Factor: 1 MDL...... 0.043

Dilution Factor: 1 MDL.......... 0.043

Lead 20.8 0.36 mg/kg SW846 6010B 10/29-10/30/09 LNDX91AD

Dilution Factor: 1 MDL..... 0.23

NOTE(S):

Client Sample ID: S-091027-PS-JSS9-S1

TCLP Metals

Lot-Sample #. Date Sampled. Leach Date	: 10/27/09	14:00 Date		.: 10/28/09 .: P930204	Matrix:	SO .
		REPORTIN	G		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER :
Prep Batch #.	: 9303020					`
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNDX91,
		Dilution Fac	tor: 1	MDL 0.0	00066	à
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNDX917
		Dilution Fac	tor: 1	MDL 0.0	0019	
NOTE (S) ·						_

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091027-PS-JSS9-S1

General Chemistry

Lot-Sample #...: A9J280123-004 Work Order #...: LNDX9 Matrix.....: SO

Date Sampled...: 10/27/09 14:00 Date Received..: 10/28/09

% Moisture....: 17

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Percent Solids
 83.1
 10.0
 %
 MCAWW 160.3 MOD
 10/28-10/29/09
 9301302

Dilution Factor: 1 MDL..... 10.0

Client Sample ID: S-091027-PS-JSS9-S2

GC Semivolatiles

Lot-Sample #: A9J280123-005	Work Order #: LND0A1AA	Matrix SO
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Date Sampled...: 10/27/09 14:05 Date Received..: 10/28/09
Prep Date.....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 1

% Moisture....: 8.7 **Method.....:** SW846 8082

		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	36	ug/kg	23
Aroclor 1221	ND	36	ug/kg	18
Aroclor 1232	ND	36	ug/kg	15
Aroclor 1242	130	36	ug/kg	14
Aroclor 1248	ND	36	ug/kg	19
Aroclor 1254	90	36	ug/kg	19
Aroclor 1260	ND	36	ug/kg	19
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	63	(10 - 196		
Decachlorobiphenyl	99	(10 - 199)	

NOTE(S):

Client Sample ID: S-091027-PS-JSS9-S2

TOTAL Metals

Lot-Sample #: A9J280123-005	Matrix: SO
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Date Sampled...: 10/27/09 14:05 Date Received..: 10/28/09

% Moisture....: 8.7

1

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Prep Batch #: 9302031 Cadmium 5.6 0.55 mg/kg SW846 6010B 10/29-10/30/09 LNDOA1AC	· · · · · · · · · · · · · · · · · · ·			Dilution Fac	ctor: 1	MDL 0.039		
· · · · · · · · · · · · · · · · · · ·	Prep Batch #: 9302031	Cadmin	3.0				10/25 10/30/05	INDONIAC
		-		0.55	mg/kg	SW846 6010B	10/29-10/30/09	LND0A1AC
	PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #	Drop Patch #	. 0202021					

Client Sample ID: S-091027-PS-JSS9-S2

TCLP Metals

Date Sampled.	A9J280123 : 10/27/09 : 10/29/09	14:05 Date		.: 10/28/09 .: P930204	Matrix:	SO
		REPORTI	NG		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT_	<u>UNITS</u>	METHOD	ANALYSIS DATE	ORDER
Prep Batch #.	: 9303020					
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNDOA1
		Dilution Fac	ctor: 1	MDL 0.0	0066	
Lead	0.69	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNDOA1
		Cilution Fa	ctor: 1	MDL 0.0	019	

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

NOTE(S):

Client Sample ID: S-091027-PS-JSS9-S2

General Chemistry

Lot-Sample #...: A9J280123-005 Work Order #...: LNDOA Matrix....: SO

Date Sampled...: 10/27/09 14:05 Date Received..: 10/28/09

% Moisture....: 8.7

1

PREPARATION-PREP PARAMETER RESULT METHOD ANALYSIS DATE BATCH # Percent Solids 91.3 10.0 MCAWW 160.3 MOD 10/28-10/29/09 9301302

Dilution Factor: 1 MDL..... 10.0

20 of 92

Client Sample ID: S-091027-PS-JSS9-S3

GC Semivolatiles

Lot-Sample #: A9J280123-006	Work Order #: LND0C1AA	Matrix SO
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Date Sampled...: 10/27/09 14:06 Date Received..: 10/28/09
Prep Date....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 1

% Moisture....: 12 **Method.....:** SW846 8082

REPO	RТ	TN	C

PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38 .	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	19
Aroclor 1254	ND	38	ug/kg	19
Aroclor 1260	84	38	ug/kg	19
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	76	(10 - 196	5)	
Decachlorobiphenyl	125	(10 - 199))	

NOTE (S):

Client Sample ID: S-091027-PS-JSS9-S3

TOTAL Metals

Lot-Sample #...: A9J280123-006 Matrix.....: SO

Date Sampled...: 10/27/09 14:06 Date Received..: 10/28/09

% Moisture....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch # Cadmium	.: 9302031 2.2	0.57 Dilution Facto	mg/kg	SW846 6010B MDL	10/29-10/30/09	LND0C1AC
Lead	281	0.34 Dilution Facto	mg/kg	SW846 6010B MDL	10/29-10/30/09	LND0C1AD

NOTE(S):

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Client Sample ID: S-091027-PS-JSS9-S3

TCLP Metals

Lot-Sample #. Date Sampled.	: 10/27/09	14:06 Date		.: 10/28/09	Matrix:	SO
Leach Date	: 10/29/09	Leaci	n Batch #.	.: P930204		•
PARAMETER	RESULT	REPORTIN	NG UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER
Prep Batch #.	: 9303020					`
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0C1,
		Eilution Fac	ctor: 1	MDL 0.0	00066	į
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LND0C1
		Cilution Fac	ctor: 1	MDL 0.0	0019	Ì

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

NOTE(S):

Client Sample ID: S-091027-PS-JSS9-S3

General Chemistry

Lot-Sample #...: A9J280123-006 Wo

Work Order #...: LND0C

Matrix..... SO

Date Sampled...: 10/27/09 14:06 Date Received..: 10/28/09

% Moisture....: 12

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PREPARATION- PREP
PARAMETER RESULT RL UNITS METHOD ANALYSIS DATE BATCH #

Percent Solids 88.0 10.0 % MCAWW 160.3 MOD 10/28-10/29/09 9301302

Dilution Factor: 1 MDL...... 10.0

Client Sample ID: S-091027-PS-JSS9-B1

GC Semivolatiles

Lot-Sample #: A9J280123-0	7 Work Order #: LND0D1AA	Matrix SO
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Date Sampled...: 10/27/09 14:08 Date Received..: 10/28/09
Prep Date....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 1

% Moisture....: 13 **Method.....:** SW846 8082

87

		REPORTIN	IG		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	38	ug/kg	24	
Aroclor 1221	ND	38	ug/kg	18	
Aroclor 1232	ND	38	ug/kg	16	
Aroclor 1242	ND	38	ug/kg	15	
Aroclor 1248	ND	38	ug/kg	19	
Aroclor 1254	ND	38	ug/kg	19	
Aroclor 1260	ND	38	ug/kg	19	
	PERCENT	RECOVERY	<u>'</u>		
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	73	(10 - 19	6)		

(10 - 199)

NOTE(S):

Decachlorobiphenyl

Client Sample ID: S-091027-PS-JSS9-B1

TOTAL Metals

Lot-Sample # Date Sampled	Matrix:	SO				
% Moisture		14:00 Date	Received.	.: 10/28/09		
		REPORTI	NG		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
Prep Batch #	: 9302031					
Cadmium	0.096 B	0.57	mg/kg	SW846 6010B	10/29-10/30/09	LND0D1AC
		Dilution Fac	ctor: 1	MDL 0.041		
Lead	12.8	0.34	mg/kg	SW846 6010B	10/29-10/30/09	LND0D1AD
		Dilution Fac	ctor: 1	MDL 0.22		

NOTE(S):

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B Estimated result. Result is less than RL.

Client Sample ID: S-091027-PS-JSS9-B1

TCLP Metals

_	: A9J28012	Matrix:	: SO			
_	10/27/09					
Leach Date	: 10/29/09	Leac	h Batch #.	.: P930204		in the
		REPORTI	NG		PREPARATION-	WORK .
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
Prep Batch #	9303020					
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0D1.
		Dilution Fac	ctor: 1	MDL 0.0	00066	•
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LND0D1;

MDL..... 0.0019

Dilution Factor: 1

NOTE (S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091027-PS-JSS9-B1

General Chemistry

Lot-Sample #...: A9J280123-007 Work Order #...: LND0D Matrix...... SO

Date Sampled...: 10/27/09 14:08 Date Received..: 10/28/09

% Moisture....: 13

1,40

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Percent Solids
 87.3
 10.0
 %
 MCAWW 160.3 MOD
 10/28-10/29/09
 9301302

Dilution Factor: 1 MDL........... 10.0

Client Sample ID: S-091027-PS-JSS9-B2

GC Semivolatiles

Lot-Sample #: A9J280123-008	Work Order #: LND0E1AA	Matrix: SO
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Date Sampled...: 10/27/09 14:20 Date Received..: 10/28/09
Prep Date....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 1

% Moisture....: 12 **Method.....:** SW846 8082

		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ИD	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	250	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	19
Aroclor 1254	210	38	ug/kg	19
Aroclor 1260	ND	38	ug/kg	19
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	<u>LIMITS</u>	_	
Tetrachloro-m-xylene	69	(10 - 196)	
Decachlorobiphenyl	93	(10 - 199)	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: S-091027-PS-JSS9-B2

TOTAL Metals

Lot-Sample #...: A9J280123-008 Matrix.....: SO

Date Sampled...: 10/27/09 14:20 Date Received..: 10/28/09

% Moisture....: 12

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #.	: 9302031 1.1	0.57	mg/kg	SW846 6010B	10/29-10/30/09	INDOE1AC
Cadmitum	1.1	Dilution Facto	J. J	MDL 0.041	10/29-10/30/09	INDUETAC
Lead	343	1.7 Dilution Factor	mg/kg	SW846 6010B MDL 1.1	10/29-10/30/09	LND0E1AD

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: S-091027-PS-JSS9-B2

TCLP Metals

-	A9J28012		Poceived	.: 10/28/09	Matrix:	SO
-	: 10/27/09			.: P930204		
		REPORTII	NG		PREPARATION-	WORK
PARAMETER_	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
Prep Batch	9303020					·
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0E1
		Dilution Fac	ctor: 1	MDL 0.0	00066	1
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LND0E1
		Dilution Fa	ctor: 1	MDL 0.0	0019	
NOTE (S):						

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091027-PS-JSS9-B2

General Chemistry

Lot-Sample #...: A9J280123-008 Work Order #...: LND0E Matrix.....: SO

Date Sampled...: 10/27/09 14:20 Date Received..: 10/28/09

% Moisture....: 12

					PREPARATION-	PREP
PARAMETER	RESULT	RL	UNITS	METHOD	ANALYSIS DATE	BATCH #
Percent Solids	87.7	10.0	F	MCAWW 160.3 MOD	10/28-10/29/09	9301302
	Di	lution Fac	tor: 1	MDL 10.0		

44 05 00

dup of JSS9-B2

Client Sample ID: S-091027-PS-JSS9-B3

GC Semivolatiles

Lot-Sample #:	A9J280123-009	Work Order #:	LND0F1AA	Matrix SO
Date Sampled:	10/27/09 14:20	Date Received:	10/28/09	
Prep Date:	10/28/09	Analysis Date:	10/29/09	
	0001050			

Prep Batch #...: 9301359

Dilution Factor: 1 % Moisture....: 11

Method.....: SW846 8082

		REPORTIN	1G		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	37	ug/kg	24	
Aroclor 1221	ND	37	ug/kg	18	
Aroclor 1232	ND	37	ug/kg	16	
Aroclor 1242	280	37	ug/kg	15	
Aroclor 1248	ND	37	ug/kg	19	
Aroclor 1254	180	37	ug/kg	19	
Aroclor 1260	ND	37	ug/kg	19	
	PERCENT	RECOVERY	<u>'</u>		
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	69	(10 - 19	96)		
Decachlorobiphenyl	84	(10 - 19	(10 - 199)		

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: S-091027-PS-JSS9-B3

TOTAL Metals

Lot-Sample ‡...: A9J280123-009 Matrix.....: S0

Date Sampled...: 10/27/09 14:20 Date Received..: 10/28/09

% Moisture....: 11

PARAMETER	RESULT	REPORTIN LIMIT	G <u>UNITS</u>	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #. Cadmium	: 9302031 2.4	0.56 Dilution Fact	mg/kg	SW846 6010B	10/29-10/30/09	LND0F1AC
Lead	628	0.34 Dilution Fact	mg/kg	SW846 6010B MDL	10/29~10/30/09	LND0F1AD

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: S-091027-PS-JSS9-B3

TCLP Metals

Lot-Sample #: A9J280123-009	Matrix SO
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 Date Sampled...:
 10/27/09 14:20
 Date Received...:
 10/28/09

 Leach Date....:
 10/29/09
 Leach Batch #...:
 P930204

Leach Date: 10/29/09		reac	n Batch #.		(
		REPORTII	NG		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
Prep Batch #	9303020					
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0F1.
		Dilution Fac	ctor: 1	MDL 0.0	00066	i
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNDOF1.
		Dilution Fac	ctor: 1	MDL 0.0	0019	

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

NOTE(S):

Client Sample ID: S-091027-PS-JSS9-B3

General Chemistry

Lot-Sample #...: A9J280123-009 Work Order #...: LNDOF Matrix.....: SO

Date Sampled...: 10/27/09 14:20 Date Received..: 10/28/09

% Moisture....: 11

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Percent Solids
 89.3
 10.0
 %
 MCAWW 160.3 MOD
 10/28-10/29/09
 9301302

Dilution Factor: 1 MDL........... 10.0

Client Sample ID: S-091027-PS-JB1-B1

GC Semivolatiles

Lot-Sample #:	A9J280123-010	Work Order	#: LND0G1AA	Matrix	. : SO
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Date Sampled...: 10/27/09 14:15 Date Received..: 10/28/09 Prep Date....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 1

% Moisture....: 6.4 **Method.....:** SW846 8082

		REPORTIN	1G		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	35	ug/kg	22	
Aroclor 1221	ND	35	ug/kg	17	
Aroclor 1232	ND	35	ug/kg	15	
Aroclor 1242	ND	35	ug/kg	14	
Aroclor 1248	ND	35	ug/kg	18	
Aroclor 1254	ND	35	ug/kg	18	
Aroclor 1260	ND	35	ug/kg	18	
	PERCENT	RECOVERY	<u>'</u>		
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	68	(10 - 19	96)		
Decachlorobiphenyl	85	(10 - 19	99)		

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: S-091027-PS-JB1-B1

TOTAL Metals

Lot-Sample #...: A9J280123-010 Matrix.....: S0

Date Sampled...: 10/27/09 14:15 Date Received..: 10/28/09

% Moisture....: 6.4

PARAMETER	RESULT	REPORTING	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch # Cadmium	: 9302031 0.059 B	0.53 Dilution Factor	mg/kg	SW846 6010B MDL	10/29-10/30/09	LND0G1AC
Lead	3.3	0.32 Dilution Facto	mg/kg	SW846 6010B MDL	10/29-10/30/09	LND0G1AD

NOTE(S):

16

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: S-091027-PS-JB1-B1

TCLP Metals

Lot-Sample #:	A9J280123-010		matrix SO
Date Sampled:	10/27/09 14:15	Date Received: 10/28/09	

 Date Sampled...:
 10/27/09 14:15
 Date Received...
 10/28/09

 Leach Date....:
 10/29/09
 Leach Batch #...
 P930204

PARAMETER	RESULT	REPORTING LIMIT	G UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER :
Prep Batch #	: 9303020					
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0G1
		Dilution Fact	tor: 1	MDL 0.00	0066	
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LND0G1;
		Dilution Fact	tor: 1	MDL 0.0	019	

NOTE (S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Client Sample ID: S-091027-PS-JB1-B1

General Chemistry

Lot-Sample #...: A9J280123-010 Work Order #...: LNDOG Matrix.....: SO

Date Sampled...: 10/27/09 14:15 Date Received..: 10/28/09

% Moisture....: 6.4

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH #

 Percent Solids
 93.6
 10.0
 %
 MCAWW 160.3 MOD
 10/28-10/29/09
 9301302

Dilution Factor: 1 MDL..... 10.0

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Client Sample ID: W-091027-PS-RB2

GC Semivolatiles

Lot-Sample #:	A9J280123-011	Work Order #:	LND0H1AA	Matrix WQ
Date Sampled:	10/27/09 13:00	Date Received:	10/28/09	
Prep Date:	10/28/09	Analysis Date:	10/29/09	
Prep Batch #:	9301358			
Dilution Factor:	1	Method:	SW846 8082	
			REPORTING	

		REPORTIN	G		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	1.0	ug/L	0.17	
Aroclor 1221	ND	1.0	ug/L	0.13	
Aroclor 1232	ND	1.0	ug/L	0.16	
Aroclor 1242	ND	1.0	ug/L	0.22	
Aroclor 1248	ND	1.0	ug/L	0.10	
Aroclor 1254	ND	1.0	ug/L	0.16	
Aroclor 1260	ND	1.0	ug/L	0.17	
	PERCENT	RECOVERY			
SURROGATE	RECOVERY	LIMITS			

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Tetrachloro-m-xylene	54	(27 - 130)
Decachlorobiphenyl	33	(10 - 127)

Client Sample ID: W-091027-PS-RB2

TOTAL Metals

Lot-Sample #...: A9J280123-011 Matrix....: WQ

Date Sampled...: 10/27/09 13:00 Date Received..: 10/28/09

PARAMETER	RESULT	REPORTI LIMIT	NG UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch	: 9302012					
Caclmium	ND	5.0	ug/L	SW846 6010B	10/29/09	LND0H1AC
		Dilution Fac	ctor: 1	MDL 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	10/29/09	LND0H1AD
		Dilution Fac	ctor: 1	MDL 1.9		



QUALITY CONTROL SECTION

GC Semivolatiles

Client Lot #...: A9J280123

Work Order #...: LNER61AA

Matrix....: WATER

MB Lot-Sample **#:** A9J280000-358

Prep Date....: 10/28/09

Analysis Date..: 10/29/09

Prep Batch #...: 9301358

Dilution Factor: 1

REPORTING

		REPORTI:	NG	
PARAMETER	RESULT	LIMIT	UNITS	METHOD
Arcclor 1016	ND	1.0	ug/L	SW846 8082
Arcclor 1221	ND	1.0	ug/L	SW846 8082
Arcclor 1232	ND	1.0	ug/L	SW846 8082
Arcclor 1242	ND	1.0	ug/L	SW846 8082
Arcclor 1248	ND	1.0	ug/L	SW846 8082
Arcclor 1254	ND	1.0	ug/L	SW846 8082
Arcclor 1260	ND	1.0	ug/L	SW846 8082
	PERCENT	RECOVER:	Y	
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	72	(27 - 1	30)	
Decachlorobiphenyl	68	(10 - 1)	27)	

NOTE(S):

GC Semivolatiles

Client Lot #...: A9J280123 Work Order #...: LNER71AA Matrix.....: SOLID

MB Lot-Sample #: A9J280000-359

 Prep Date....: 10/28/09

 Analysis Date..: 10/29/09
 Prep Batch ₱...: 9301359

Dilution Factor: 1

REPORTING

		IVET OIVE I	110		
PARAMETER	RESULT	LIMIT	UNITS	METHOD	
Aroclor 1016	ND	33	ug/kg	SW846 8082	_
Aroclor 1221	ND	33	ug/kg	SW846 8082	
Aroclor 1232	ND	33	ug/kg	SW846 8082	
Aroclor 1242	ND	33	ug/kg	SW846 8082	
Aroclor 1248	ND	33	ug/kg	SW846 8082	
Aroclor 1254	ND	33	ug/kg	S W 846 8082	
Aroclor 1260	ND	33	ug/kg	SW846 8082	
	PERCENT	RECOVER'	Y		
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	84	(10 - 1	96)		
Decachlorobiphenyl	103	(10 - 1	99)		

NOTE(S):

TOTAL Metals

Client Lot #	A9J28012	3			Matrix WA	TER
PARAMETER	RESULT	REPORTII	NG <u>UNITS</u>	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sampl	e #: A9J29000	0-012 Prep I	Batch #:	9302012		
Cadmium	ND	5.0	ug/L	SW846 6010B	10/29/09	LNF061AX
_			ug/L		10/29/09	LNF061AX
_		5.0	ug/L		10/29/09	LNF061AX

TOTAL Metals

Client Lot #.	: A9J28012	3		м	atrix SOLID
PARAMETER	RESULT	REPORTII LIMIT	NG UNITS	METHOD	PREPARATION- WORK ANALYSIS DATE ORDER
MB Lot-Sample	#: A9J29000	0 - 031 Prep 1	Batch #:	9302031	
Cadmium	ND	0.50	mg/kg	SW346 6010B	10/29-10/30/09 LNF2C1.
		Dilution Fac	ctor: 1		•
Lead	ND	0.30	mg/kq	SW846 6010B	10/29-10/30/09 LNF2C1.
		Dilution Fac	ctor: 1		i
NOTE (S):					

TCLP Metals

1 4	Client Lot #: A9J280123					Matrix: SOLID	
			REPORTI	NG		PREPARATION-	WORK
Wid	PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
	MB Lot-Sampl	e #: A9J29000	0-283 Prep 1	Batch #:	9303020		
	Leach Date	: 10/29/09	Leach	Batch #:	: P930204		
	Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNGVD1AA
			Dilution Fac	ctor: 1			
	Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNGVD1AC
			Dilution Fac	ctor: 1			
.u. 1	NOTE (S):						

TCLP Metals

Client Lot #	.: A9J28012	M	Matrix SOLID				
PARAMETER	RESULT	REPORTIN LIMIT	IG UNITS	METHOD)	PREPARATION- ANALYSIS DATE	WORK ORDER
MB Lot-Sample : Cadmium	#: A9J300000 ND	0-020 Prep E 0.10 Dilution Fac	mg/L	: 9303020 SW846	6010B	10/30-10/31/09	LNJDV1;
Lead	ND	0.50 Dilution Fac	mg/L tor: 1	SW846	6010B	10/30-10/31/09	LNJDV1.
NOTE (S):							

General Chemistry

Client Lot #:	x SOLID					
		REPORTIN	G		PREPARATION-	PREP
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	BATCH #
Percent Solids		Work Order	#: LNECG1AA	MB Lot-Sample #:	A9J280000-302	
	ND	10.0	ક	MCAWW 160.3 MOD	10/28-10/29/09	9301302
		Dilution Fact	or: 1			

NOTE(S):

114

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J280123 Work Order #...: LNER61AC Matrix.....: WATER

LCS Lot-Sample#: A9J280000-358

Prep Date....: 10/28/09 **Analysis Date..:** 10/29/09

Prep Batch #...: 9301358

Dilution Factor: 2

PERCENT RECOVERY PARAMETER RECOVERY LIMITS ${\tt METHOD}$ Aroclor 1016 77 (44 - 119)SW846 8082 Aroclor 1260 96 (41 - 118)SW846 8082 PERCENT RECOVERY

 SURROGATE
 RECOVERY
 LIMITS

 Tetrachloro-m-xylene
 78
 (27 - 130)

 Decachlorobiphenyl
 54
 (10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J280123 Work Order #...: LNER61AC Matrix...... WATER

LCS Lot-Sample#: A9J280000-358

Prep Date....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301358

Dilution Factor: 2

	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
Aroclor 1016	10	7.7	ug/L	77	SW846 8082
Aroclor 1260	10	9.6	ug/L	96	SW846 8082
		PERCENT	RECOVERY		
SURROGATE		RECOVERY	LIMITS	_	
Tetrachloro-m-xylene		78	(27 - 130)	-	
Decachlorobiphenyl		54	(10 - 127)		

NOTE(S):

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Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J280123 Work Order #...: LNER71AC Matrix.....: SOLID

LCS Lot-Sample#: A9J280000-359

Prep Date....: 10/28/09 **Analysis Date..:** 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 1

	PERCENT	RECOVERY	
PARAMETER	RECOVERY	LIMITS	METHOD
Aroclor 1016	77	(34 - 127)	SW846 8082
Aroclor 1260	90	(32 - 141)	SW846 8082
		PERCENT	RECOVERY
SURROGATE		RECOVERY	LIMITS
Tetrachloro-m-xylene		80	(10 - 196)
Decachlorobiphenyl		101	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J280123 Work Order #...: LNER71AC

Matrix..... SOLID

LCS Lot-Sample#: A9J280000-359

Prep Date....: 10/28/09

Analysis Date..: 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 1

	SPIKE	MEASURED	PERCENT			
PARAMETER.	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD	
Aroclor 1016	330	260	ug/kg	77	SW846 8082	
Aroclor 1260	330	300	ug/kg	90	SW846 8082	
		PERCENT	RECOVERY			
SURROGATE		RECOVERY	LIMITS			

 SURROGATE
 RECOVERY
 LIMITS

 Tetrachloro-m-xylene
 80
 (10 - 196)

 Decachlorobiphenyl
 101
 (10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #:	A9J280123			Matrix	: WATER
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: Cadmium	A9J290000- 101	•	sw846 6010B or: 1	10/29/09	LNF061CW
Lead	102	(30 - 120) Dilution Factor	SW846 6010B	10/29/09	LNF061CX
NOTE (S):					

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot	‡: A93	7280123					Matrix:	WATER	
PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHO	<u> </u>	PREPARATION- ANALYSIS DATE	WORK ORDER #	
LCS Lot-Sample#: A9J290000-012 Prep Batch #: 9302012									
Cadmium	50.0	50 . 6 1	ug/L	101	SW846	6010B	10/29/09	LNF061CW	
		Dil	lution Factor	: 1					
Lead	500	508 t	ug/L	102	SW846	6010B	10/29/09	LNF061CX	
		Dil	ution Factor	: 1					

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #:	A9J280123			Matrix: SOLID			
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #		
LCS Lot-Sample#: Cadmium	A9J290000- 98	_	sw846 6010B or: 1	10/29-10/30/09	LNF2C1AD		
Lead	98	(80 - 120) Dilution Fact	SW846 6010B	10/29-10/30/09	LNF2C1AE		
NOTE (S) ·							

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot : A9J280123 Matrix:							SOLID	
PARAMETER	SPIKE - AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #	
LCS Lot-Sample#: A9J290000-031 Prep Batch #: 9302031								
Cadmium	5.0	4.9	mg/kg	98	SW846 6010B	10/29-10/30/09	LNF2C1AD	
		Γ	Dilution Factor	s: 1				
Lead	50.0	48.9	mg/kg	98	SW846 6010B	10/29-10/30/09	LNF2C1AE	
		Г	ilution Factor	: 1				
					•			

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J280123 Matrix.....: SOLID

PREPARATION-PERCENT RECOVERY PARÁMETER RECOVERY METHOD ANALYSIS DATE WORK ORDER # LIMITS LCS Lot-Sample#: A9J300000-020 Prep Batch #...: 9303020 (50 - 150) SW846 6010B Cadmium 10/30-10/31/09 LNJDV1AR 107 Dilution Factor: 1 10/30-10/31/09 LNJDV1AU Lead 107 (50 - 150) SW846 6010B Dilution Factor: 1

NOTE(S):

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #: A9J280123 Matrix:								SOLID
PARAMETER	SPIKE AMOUNT	MEASURI AMOUNT	ED UNITS	PERCNT RECVRY	METHOD		PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J300000-020 Prep Batch #: 9303020								
Cadmium	0.050	0.053	mg/L	107	SW846 601	10B	10/30-10/31/09	LNJDV1AR
			Dilution Facto	r: 1				
Lead	0.50	0.54	mq/L	107	SW846 601	10B	10/30-10/31/09	LNJDV1AU
			Dilution Facto	r: 1				

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J280123 Work Order #...: LNDXH1CR-MS Matrix.....: WATER

MS Lot-Sample #: A9J280120-002 LNDXH1CT-MSD

Date Sampled...: 10/27/09 11:15 Date Received..: 10/28/09
Prep Date....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301358

Dilution Factor: 2

	PERCENT	RECOVERY		RPD			
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD		
Aroclor 1016	77	(10 - 166)	_		SW846 8082		
	79	(10 - 166)	1.6	(0-30)	SW846 8082		
Aroclor 1260	87	(21 - 140)			SW846 8082		
	91	(21 - 140)	5.0	(0-30)	SW846 8082		
		PERCENT		RECOVERY			
SURROGATE		RECOVERY		LIMITS			
Tetrachloro-m-xylene		78		(27 - 130)			
		81		(27 - 130))		
Decachlorobiphenyl		67		(10 - 127))		
		69		(10 - 127	·)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J280123 Work Order #...: LNDXH1CR-MS Matrix..... WATER

MS Lot-Sample #: A9J280120-002 LNDXH1CT-MSD

Date Sampled...: 10/27/09 11:15 Date Received..: 10/28/09
Prep Date....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301358

Dilution Factor: 2

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	SAMPLE	SPIKE	MEASRD		PERCNT		
PARAMETER	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD
Aroclor 1015	ND	20	15	ug/L	77		SW846 8082
	ND	20	16	ug/L	79	1.6	SW846 8082
Aroclor 1260	ND	20	17	ug/L	87		SW846 8082
	ND	20	18	u a/L	91	5.0	SW846 8082

	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Tetrachloro-m-xylene	78	(27 - 130)	
	81	(27 - 130)	
Decachlorobiphenyl	67	(10 - 127)	
	69	(10 - 127)	

NOTE (S):

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Calculations are performed before rounding to avoid round-off errors in calculated results. Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J280123 Work Order #...: LNDMV1AG-MS Matrix.....: SOLID

MS Lot-Sample #: A9J280105-001 LNDMV1AH-MSD

Date Sampled...: 10/27/09 13:30 Date Received..: 10/28/09
Prep Date....: 10/28/09 Analysis Date..: 10/29/09

Prep Batch #...: 9301359

Dilution Factor: 10 % Moisture....: 22

	PERCENT	RECOVERY		RPD	
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD
Aroclor 1016	492 DIL, a	(10 - 199)			SW846 8082
	519 DIL,a	(10 - 199)	5.3	(0-30)	SW846 8082
Aroclor 1260	66 DIL	(10 - 199)			SW846 8082
	67 DIL	(10 - 199)	1.9	(0-30)	SW846 8082
		PERCENT		RECOVERY	
SURROGATE		RECOVERY		LIMITS	
Tetrachloro-m-xylene		82 DIL		(10 - 196	5)
		81 DIL		(10 - 196	5)
Decachlorobiphenyl		794		(10 - 199))
	Qualifi	Qualifiers: DIL,*			
		879		(10 - 199)))
	Qualifi	ers: DIL,*			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J280123 Work Order #...: LNDMV1AG-MS Matrix.....: SOLID

MS Lot-Sample **#:** A9J280105-001 LNDMV1AH-MSD

Date Sampled...: 10/27/09 13:30 Date Received..: 10/28/09
Prep Date....: 10/28/09
Analysis Date..: 10/29/09

Prep Batch #...: 9301359

	SAMPLI	E SPIKE	MEASRD		PERCNT	
PARAMETER	AMOUN'	r amt	AMOUNT	UNITS	RECVRY RPD	METHOD
Aroclor 1016	ND	420	2100	ug/kg	492	SW846 8082
	Qı	ualifiers:	DIL,a			
	ND	430	2200	ug/kg	519 5.3	SW846 8082
	γQ	ualifiers:	DIL,a			
Aroclor 1260	ND	420	280	ug/kg	66 DIL	SW846 8082
	ND	430	290	ug/kg	67 DIL 1.9	SW846 8082
					DEGGLERRY	
CHEDOCAME			RCENT		RECOVERY	

	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Tetrachloro-m-xylene	82 DIL	(10 - 196)	
	81 DIL	(10 - 196)	
Decachlorcbiphenyl	794	(10 - 199)	
-	Qualifiers: DIL,*		
	879	(10 - 199)	
	Oualifiers: DIL.*		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot # Date Sampled	Matrix					
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sampl	e #: A9J28	0123-001 Prep B	atch #	.: 9302031		
Cadmium	89	(75 - 125)		SW846 6010B	10/29-10/30/09	LNDX21AJ
	90	(75 - 125) 0.99	(0-20)	SW846 6010B	10/29-10/30/09	LNDX21AK
		Dilution Fac	tor: 1			
Lead	88	(75 - 125)		SW846 6010B	10/29-10/30/09	LNDX21AL
	91	(75 - 125) 3.2	(0-20)	SW846 6010B	10/29-10/30/09	LNDX21AM
		Dilution Fac	tor: 1			

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NOTE (S):

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Date Sampled...: 10/27/09 13:37 Date Received..: 10/28/09

PARAMETER	SAMPLE AMOUNT		MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHO)	PREPARATI ANALYSIS		WORK ORDER	#
MS Lot-Sar	mple #:	A9J2801	23-001	Prep Batch	•: 9:	302031	L					
Cadmium												
(0.18	5.3	5.0	mg/kg	89		SW846	6010B	10/29-10/	/30/09	LNDX21	Αċ
(0.18	5.3	5.0	mg/kg	90	0.99	SW846	6010B	10/29-10/	/30/09	LNDX21	.AF
			Dilut	ion Factor: 1								
Lead												
Ĺ	5.5	53.4	52.5	mq/kg	88		SW846	6010B	10/29-10/	/30/09	LNDX21	ΑI
Ę	5.5	53.4	54.2	mg/kg	91	3.2	SW846	6010B	10/29-10/	/30/09	LNDX21	ΑM
			Dilut	ion Factor: 1								

NOTE(S):

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Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot # Date Sampled		Matrix	: SOLID		
PARAMETER	PERCENT RECOVERY	RECOVERY RPD LIMITS RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sampl	e #: A9J28	0212-001 Prep Batch #	: 9303020		
Leach Date	: 10/29	/09 Leach Batch #.	: P930204		
Cadmium	107	(50 - 150)	SW846 6010B	10/30-10/31/09	LNETJ1A3
	107	(50 - 150) 0.54 (0-20)	SW846 6010B	10/30-10/31/09	LNETJ1A4
		Dilution Factor: 5			
Lead	108	(50 - 150)	SW846 6010B	10/30-10/31/09	LNETJ1A7
	110	(50 - 150) 1.3 (0-20)	SW846 6010B	10/30-10/31/09	LNETJ1A8
		Dilution Factor: 5			

Calculations are performed before rounding to avoid round-off errors in calculated results.

NOTE (S):

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #: A9J280123	Matrix SOLID
Date Sampled: 10/28/09 10:30 Date Received: 10/28/09	

1.4	PARAMETER	SAMPLE AMOUNT		MEASRD AMOUNT	UNITS	PERCNT RECVRY RI	PD_	METHOI)	PREPARATION- ANALYSIS DATE	WORK ORDER #
LIIS	MS Lot-Sa	mple #:	A9J2802	12-001	Prep Batch	#: 930:	3020)			
	Leach Date Caclmium	e:	10/29/0	9	Leach Batch	#: P930	0204	1			
	!	ND	1.0	1.1	mg/L·	107		SW846	6010B	10/30-10/31/09	LNETJ1A3
ind .	1	ND	1.0	1.1	mg/L	107 0	.54	SW846	6010B	10/30-10/31/09	LNETJ1A4
				Dilu	tion Factor: 5						
61 £	Lead										
WIP.	(0.97	5.0	6.4	mg/L	108		SW846	6010B	10/30-10/31/09	LNETJ1A7
	(0.97	5.0	6.4	mg/L	110 1	. 3	SW846	6010B	10/30-10/31/09	LNETJ1A8
h 🛋				Dilu	tion Factor: 5						

NOTE (S):

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SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J280123 Work Order #...: LNDMV-SMP Matrix.....: SOLID

LNDMV-DUP

Date Sampled...: 10/27/09 13:30 Date Received..: 10/28/09

% Moisture....: 22

PREP DUPLICATE RPD PREPARATION-PARAM RESULT LIMIT METHOD ANALYSIS DATE BATCH RESULT UNITS RPD Percent Solids SD Lot-Sample #: A9J280105-001 10/28-10/29/09 9301 78.3 (0-20) MCAWW 160.3 MOD 81.5 3.9

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot | ...: A9J280123 | Work Order | ...: LND0G-SMP | Matrix.....: SO

LND0G-DUP

Date Sampled...: 10/27/09 14:15 Date Received..: 10/28/09

% Moisture....: 6.4

	DUPLICATE			RPD		PREPARATION-	PREP
PARAM RESULT	RESULT	UNITS	RPD _	LIMIT	METHOD	ANALYSIS DATE	BATCH #
Percent Solids		_	-		SD Lot-Sample #:	A9J280123-010	
93.6	93.5	ક	0.029	(0-20)	MCAWW 160.3 MOD	10/28-10/29/09	9301302

Dilution Factor: 1

		ONESTO	GA-ROYERS & ASSOCIATES	SHIPPED TO (La	-	•			R	EFERI	ENCE	NUM	BER:	
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North Canton Facil			
Cooler Received on	Project <u>54633</u> 10128109 Opened on 1012	By: A land	2
	O Opened onO FAS ☐ Stetson ☐ Client Drop Off ☐ 1	(Signature)	
TestAmerica Cooler #	Multiple Coolers Foam Bo	Client Cooler Coher	
1 Were custody seeds	on the outside of the cooler(s)? Yes 🔀 No 🛚	×	
If YES, Quantity	Quantity Unsalvageable	·	
	on the outside of cooler(s) signed and dated?	Yes 🛛 No 🖵 NA 🗆	
Were custody seals	• •	Yes 🗌 No 🖄	
If YES, are there any	•	- \ -	
	p attached to the cooler(s)?	Yes X No 🗆	
	accompany the sample(s)? Yes 🗓 No 🗌	Relinquished by client? Yes	-No [
	pers signed in the appropriate place?	Yes ⊠ No □	
	d: Bubble Wrap 💢 Foam 🗌 None 🗍		
6. Cooler temperature u		orm for multiple coolers/temps	
	R X Other	 ,	
	-	□ None □	
	in good condition (Unbroken)?	Yes ☑ No □	
•• • • • • • • • • • • • • • • • • • • •	s be reconciled with the COC?	Yes 🔀 No 🗌	
	e correct pH upon receipt?	Yes 🔼 No 🗌 NA 🗍	
	s) used for the test(s) indicated?	Yes 12 No □	
11. Were air bubbles >6	mm in any VOA vials?	Yes 🗌 No 🔲 NA 🔀	
	ceived to perform indicated analyses?	Yes ☑ No □	
13. Was a trip blank pres	sent in the cooler(s)? Yes 🔲 No 🗹 Were	Yes ☑ No ☐ VOAs on the COC? Yes ☐ No ☑	_
13. Was a trip blank pres Contacted PM		Yes ☑ No □	her [
13. Was a trip blank pres Contacted PM Concerning	sent in the cooler(s)? Yes \(\text{No \(\text{\text{M}} \) Were \(\text{Date} \) Date \(\text{Date} \)	Yes ☑ No ☐ VOAs on the COC? Yes ☐ No ☑ via Verbal ☐ Voice Mail ☐/Otl	her [
13. Was a trip blank pres Contacted PM Concerning 14. CHAIN OF CUSTOR	sent in the cooler(s)? Yes \(\bar{\text{No \(\bar{\text{M}}\)} \\ \text{Dete} \(\bar{\text{Loop}} \)	Yes ☑ No ☐ VOAs on the COC? Yes ☐ No ☑ via Verbal ☐ Voice Mail ☐/Otl	her [
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13. Was a trip blank pres Contacted PM Concerning 14: CHAIN OF CUSTOR	sent in the cooler(s)? Yes \(\bar{\text{No \(\bar{\text{M}}\)} \\ \text{Dete} \(\bar{\text{Loop}} \)	Yes ☑ No ☐ VOAs on the COC? Yes ☐ No ☑ via Verbal ☐ Voice Mail ☐/Otl	her [
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13. Was a trip blank pres Contacted PM Concerning 14. CHAIN OF CUSTOR	sent in the cooler(s)? Yes \(\bar{\text{No \(\bar{\text{M}}\)} \\ \text{Dete} \(\bar{\text{Loop}} \)	Yes ☑ No ☐ VOAs on the COC? Yes ☐ No ☑ via Verbal ☐ Voice Mail ☐/Otl	her
13. Was a trip blank pres Contacted PM Concerning 14. CHAIN OF CUSTOR The following discrepance	ent in the cooler(s)? Yes \(\text{No \(\text{V} \) Were \(\text{Date} \) Date \(\text{DY} \) ies occurred:	Yes ☑ No ☐ VOAs on the COC? Yes ☐ No ☑ via Verbal ☐ Voice Mail ☐/Otl	her
13. Was a trip blank pres Contacted PM Concerning 14. CHAIN OF CUSTOD The following discrepance	Sent in the cooler(s)? Yes \(\text{No \(\text{V} \) \\ \\ \text{Months of the cooler} \) OY: ies occurred:	Yes ☑ No ☐ VOAs on the COC? Yes ☐ No ☑ via Verbal ☐ Voice Mail ☐/Otl	
13. Was a trip blank pres Contacted PM Concerning 14. CHAIN OF CUSTOD The following discrepance 15. SAMPLE CONDITION Sample(s)	Sent in the cooler(s)? Yes \(\text{No \(\text{V} \) \\ \\ \text{Months of the cooler} \) OY: ies occurred:	Yes No No No No No No No No No N	pire
3. Was a trip blank pres Contacted PM Concerning 14. CHAIN OF CUSTOR The following discrepance Sample(s) Sample(s)	Date No	Yes No Do VOAs on the COC? Yes No No via Verbal Voice Mail Otl er the recommended holding time had ex were received in a broken cont	pire
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13. Was a trip blank pres Contacted PM Concerning 14. CHAIN OF CUSTOD The following discrepance 15. SAMPLE CONDITIO Sample(s) Sample(s) Sample(s) Receiving to meet recome Hydroxide Lot# 100108 -Na	Date	Yes No Do VOAs on the COC? Yes No No via Verbal Voice Mail Otl The recommended holding time had ex were received in a broken cont ad with bubble >6 mm in diameter. (Notification of the content of the	opire aine y Pl
23. Was a trip blank prescontacted PM	Date	Yes No Do VOAs on the COC? Yes No No via Verbal Voice Mail Otl The recommended holding time had ex were received in a broken cont ad with bubble >6 mm in diameter. (Notification of the content of the	xpire aine y Pl
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13. Was a trip blank pres Contacted PM Concerning 14. CHAIN OF CUSTOD The following discrepance Sample(s) Sample(s) Sample(s) Sample(s) Receiving to meet recome Hydroxide Lot# 100108 -Na CH₃COO)₂ZN/NaOH. Wh	Date	Yes No Do VOAs on the COC? Yes No No via Verbal Voice Mail Ott The recommended holding time had ex were received in a broken cont of with bubble >6 mm in diameter. (Notification of the content of the	xpire aine y Pl

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END OF REPORT



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Associates, Inc.
PROJECT NO. 54633
Jefferson Yard

SAMPLE SUMMARY

WO # LNJV3 **LABORATORY ID**

A9J300158-001

SAMPLE IDENTIFICATION S-091029-PS-SB11-B1R

TESTAMERICA LABORATORIES, INC.

Denise DHeckler

Denise D. Heckler

Project Manager

denise.heckler@testamericainc.com

Denise D. Heckler Project Manager 11/5/2009 3:12 PM

November 05, 2009

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720 Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com



CASE NARRATIVE

A9J300158

The following report contains the analytical results for one solid sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 54633. The sample was received October 30, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson, Pete Storlie and Steve Voss on November 04, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.4°C.

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The QC batch associated with batch 9307019 for the Metals analysis is reported without an MS/MSD. The MS/MSD was performed on another client's sample within the batch. The MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. Ongoing evaluation and monitoring of the LCS provides long-term precision and accuracy for the method.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

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QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

OC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

• Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone		Lead, Calcium,	
		Magnesium, Potassium,	
		Sodium, Barium,	
		Chromium, Manganese	

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QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank evel. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked: therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet accept ance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request. California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#.200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

EXECUTIVE SUMMARY - Detection Highlights

A9J300158

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-091029-PS-SB11-B1R 10/29/09 08:00	001			
Lead Cadmium Percent Solids	17.0 0.23 B 82.3	0.36 0.61 10.0	mg/kg mg/kg १	SW846 6010B SW846 6010B MCAWW 160.3 MOD

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ANALYTICAL METHODS SUMMARY

A9J300158

PARAMETER	ANALYTICAL METHOD			
Enductively Coupled Plasma (ICP) Metals	SW846 6010B			
PCBs by SW-846 8082	SW846 8082			
Cotal Residue as Percent Solids	MCAWW 160.3 MOD			
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B			

References:

hij

MCAWW	"Methods for Chemical Analysis of Water and Wastes",
	EPA-600/4-79-020, March 1983 and subsequent revisions.

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A9J300158

 WO #
 SAMPLE#
 CLIENT SAMPLE ID
 SAM

 LNJV3
 001
 S-091029-PS-SB11-B1R
 10/29/09
 08:

NOTE (S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Client Sample ID: S-091029-PS-SB11-B1R

GC Semivolatiles

Lot-Sample #: A9J300158-001 Work Order #	: LNJV31AA	Matrix SO
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Date Sampled...: 10/29/09 08:00 Date Received..: 10/30/09 Prep Date.....: 10/30/09 Analysis Date..: 11/04/09

Prep Batch #...: 9303293

Dilution Factor: 1

% Moisture....: 18 **Method.....**: SW846 8082

		REPORTIN	1G		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	40	ug/kg	26	
Aroclor 1221	ND	40	ug/kg	19	
Aroclor 1232	ND	40	ug/kg	17	
Aroclor 1242	ND	40	ug/kg	16	
Aroclor 1248	ND	40	ug/kg	21	
Aroclor 1254	ND	40	ug/kg	21	
Aroclor 1260	ND	40	ug/kg	21	
	PERCENT	RECOVERY	?		
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	78	(10 - 19	06)		
Decachlorobiphenyl	82	(10 - 19	9)		

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: S-091029-PS-SB11-B1R

TOTAL Metals

•	: A9J30015 : 10/29/09 : 18		Received.	.: 10/30/09	Matrix:	so
		REPORTI	NG		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER :
Prep Batch #	9303242					'
Cadmium	0.23 B	0.61	mg/kg	SW846 6010B	10/30-10/31/09	LNJV31
		Dilution Fa	ctor: 1	MDL 0.044		ı
Lead	17.0	0.36	mg/kg	SW846 6010B	10/30-10/31/09	LNJV31
		Cilution Fac	ctor: 1	MDL 0.23		ı
NOTE (S):						

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: S-091029-PS-SB11-B1R

TCLP Metals

Lot-Sample #...: A9J300158-001 Matrix....: SO

Date Sampled...: 10/29/09 08:00 Date Received..: 10/30/09

Leach Date....: 11/02/09 Leach Batch #..: P930608

REPORTING PREPARATION-WORK PARAMETER LIMIT UNITS. METHOD ANALYSIS DATE ORDER # RESULT Prep Batch #...: 9307019 Cadmium ND 0.10 mg/L SW846 6010B 11/03-11/04/09 LNJV31AE Dilution Factor: 1 MDL..... 0.00066 0.50 SW846 6010B Lead ND mg/L 11/03-11/04/09 LNJV31AF Dilution Factor: 1 MDL..... 0.0019

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

NOTE(S):

Client Sample ID: S-091029-PS-SB11-B1R

General Chemistry

Lot-Sample #...: A9J300158-001 Work Order #...: LNJV3 Matrix.....: SO

Date Sampled...: 10/29/09 08:00 Date Received..: 10/30/09

% Moisture....: 18

PARAMETER RESULT RL UNITS METHOD ANALYSIS DATE BATCH Percent Solids 82.3 10.0 % MCAWW 160.3 MOD 10/30-10/31/09 9303320

Cilution Factor: 1 MDL..... 10.0

12 of 21



QUALITY CONTROL SECTION

GC Semivolatiles

Client Lot #...: A9J300158

Work Order #...: LNJ7Q1AA

Matrix....: SOLID

MB Lot-Sample #: A9J300000-293

Analysis Date..: 11/04/09

Prep Date....: 10/30/09

Prep Batch #...: 9303293

Dilution Factor: 1

REPORTING

		IVET OT/I I	140	
PARAMETER	RESULT	LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082
	PERCENT	RECOVER	Y	
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	78	(10 - 19	96)	
Decachlorobiphenyl	72	(10 - 19	99)	

NOTE (S):

TOTAL Metals

Client Lot 1: A9J300158				M	Matrix SOLID		
PARAMETER	RESULT_	REPORTI LIMIT	NG <u>UNITS</u>	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #	
MB Lot-Samp	le #: A9J30000	0-242 Prep 0.50	Batch #:	: 9303242 SW846 6010B	10/30-10/31/09	LNJXX1AA	
		Dilution Fa	ctor: 1				
Lead	ND	0.30 Dilution Fa	mg/kg ctor: 1	SW846 6010B	10/30-10/31/09	LNJXX1AC	

Calculations are performed before rounding to avoid round-off errors in calculated results.

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TCLP Metals

Client Lot	: A9J30015	8			M	Matrix SC	LID
		REPORTI	NG			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD)	ANALYSIS DATE	ORDER
_	e #: A9K02000	-					
Leach Date	: 11/02/09	Leach	Batch #	: P930608			
Cadmium	ND	0.10	mg/L	SW846	6010B	11/03-11/04/09	LNNL61
		Cilution Fa	ctor: 1				
Lead	ND	0.50	mg/L	SW846	6010B	11/03-11/04/09	LNNL61
		Eilution Fa	ctor: 1				
NOTE (S):							

TCLP Metals

	Client Lot 1	: A9J300158	Ma	Matrix SOLID			
likir	PARAMETER	RESULT	REPORTII LIMIT	NG UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
	MB Lot-Sample	e #: A9K030000	0-019 Prep I	Batch #:	9307019		
ilack	Cadmium	ND	0.10	mg/L	SW846 6010B	11/03-11/04/09	LNPGM1AD
TIME							
	Lead	ND	0.50	mg/L	SW846 6010B	11/03-11/04/09	LNPGM1AF
144			Dilution Fac	ctor: 1			
	NOTE(S):						

General Chemistry

Client Lot #...: A9J300158

Matrix..... SOLID

		REPORTIN	G		PREPARATION-	PREP
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	BATCH 🛓
Percent Solids		Work Order	#: LNJ8X1AA	MB Lot-Sample #:	A9J300000-320	
	ND	10.0	્ર	MCAWW 160.3 MOD	10/30-10/31/09	9303320
		Dilution Fact	tor: 1			

NOTE(S):

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J300158 Work Order #...: LNJ7Q1AC Matrix......: SOLID

LCS Lot-Sample#: A9J300000-293

Prep Date....: 10/30/09 Analysis Date..: 11/04/09

Prep Batch #...: 9303293

Dilution Factor: 1

	PERCENT	RECOVERY	
PARAMETER	RECOVERY	LIMITS	METHOD
Aroclor 10:.6	75	(34 - 127)	SW846 8082
Aroclor 1260	75	(32 - 141)	SW846 8082

PERCENT RECOVERY

SURROGATE RECOVERY

Tetrachloro-m-xylene 78 (10 - 196)

Decachlorobiphenyl 80 (10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J300158 Work Order #...: LNJ7Q1AC Matrix.....: SOLID

LCS Lot-Sample#: A9J300000-293

Prep Date....: 10/30/09 **Analysis Date..:** 11/04/09

Prep Batch #...: 9303293

Dilution Factor: 1

	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
Aroclor 1016	330	250	ug/kg	75	SW846 8082
Aroclor 1260	330	250	ug/kg	75	SW846 8082
		PERCENT	RECOVERY		
SURROGATE		RECOVERY	LIMITS		
Tetrachloro-m-xylene		78	(10 - 196)	•	
Decachlorobiphenyl		80	(10 - 199)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot †...: A9J300158 Matrix....: SOLID

PARAMETER RECOVERY RECOVERY PREPARATIONANALYSIS DATE WORK ORDER #

LCS Lot-Sample#: A9J300000-242 Prep Batch #...: 9303242

Cadmium 96 (80 - 120) SW846 6010B 10/30-10/31/09 LNJXX1AD

Dilution Factor: 1

Lead 96 (80 - 120) SW846 6010B 10/30-10/31/09 LNJXX1AE

Dilution Factor: 1

NOTE(S):

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #: A9J300158 Matrix							Matrix:	SOLID
PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHO)	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Samp	le#: A9J	300000-24	2 Prep Bate	ch #	: 93032	242		
Cadmium	5.0	4.8	mg/kg	96	SW846	6010B	10/30-10/31/09	LNJXX1AD
		Ľ	ilution Factor	: 1				
Lead	50.0	48.1	mg/kg	96	SW846	6010B	10/30-10/31/09	LNJXX1AE
		Ė	ilution Factor	: 1				
NOTE (C)								
NOTE (S) ·								

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot 4...: A9J300158 Matrix.....: SOLID

PERCENT RECOVERY PREPARATIONPARAMETER RECOVERY LIMITS METHOD ANALYSIS DATE WORK ORDER #

Third in the state of the state

LCS Lot-Sample#: A9K030000-019 Prep Batch #...: 9307019
Cadmium 106 (50 - 150) SW846 6010B 11/03-11/04/09 L

Cadmium 106 (50 - 150) SW846 6010B 11/03-11/04/09 LNPGM1AM Dilution Factor: 1

Lead 104 (50 - 150) SW846 6010B 11/03-11/04/09 LNPGM1AP

Dilution Factor: 1

NOTE(S):

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LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #: A9J300158 Matrix						Matrix:	SOLID		
PARAMETER	SPIKE AMOUNT	MEASURE AMOUNT	D UNITS	PERCNT RECVRY	<u>METHOD</u>	PREPARATION- ANALYSIS DATE	WORK ORDER #		
LCS Lot-Sample#: A9K030000-019 Prep Batch #: 9307019									
Cadmium	0.050	0.053	mg/L	106	SW846 6010B	11/03-11/04/09	LNPGM1AM		
Dilution Factor: 1									
Lead	0.50	0.52	mg/L	104	SW846 6010B	11/03-11/04/09	LNPGM1AP		
			Dilution Facto	r: 1					
NOTE (G)									
NOTE(S):									

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot ‡...: A9J300158 Work Order ‡...: LNHFG1AU-MS Matrix...... SOLID

MS Lot-Sample #: A9J290236-001 LNHFG1AV-MSD

Date Sampled...: 10/26/09 09:55 Date Received..: 10/28/09 Prep Date....: 10/30/09 Analysis Date..: 11/03/09

Prep Batch #...: 9303293

Dilution Factor: 1 % Moisture....: 100

	PERCENT	RECOVERY		RPD	
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD
Aroclor 1016	78	(10 - 199)			SW846 8082
	74	(10 - 199)	5.0	(0-30)	SW846 8082
Aroclor 1260	79	(10 - 199)			SW846 8082
	72	(10 - 199)	9.0	(0-30)	SW846 8082
		PERCENT		RECOVERY	
SURROGATE		RECOVERY		LIMITS	
Tetrachloro-m-xylene		82		(10 - 196	,
-		76		(10 - 196	5)
Decachlorobiphenyl		89		(10 - 199)
		83		(10 - 199))

NOTE(S):

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Calculations are performed before rounding to avoid round-off errors in calculated results. Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J300158 Work Order #...: LNHFG1AU-MS Matrix.....: SOLID

MS Lot-Sample #: A9J290236-001 LNHFG1AV-MSD

Date Sampled...: 10/26/09 09:55 Date Received..: 10/28/09
Prep Date....: 10/30/09 Analysis Date..: 11/03/09

Prep Batch #...: 9303293

Dilution Factor: 1 % Moisture....: 100

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	ND	330	260	ug/kg	78		SW846 8082
	ND	330	250	ug/kg	74	5.0	SW846 8082
Aroclor 1260	ND	330	260	ug/kg	79		SW846 8082
	ND	330	240	ug/kg	72	9.0	SW846 8082
			PERCENT		RECOVERY		

	PERCENT	KECOVEKI	
SURROGATE	RECOVERY	LIMITS	
Tetrachloro-m-xylene	82	(10 - 196)	
	76	(10 - 196)	
Decachlorobiphenyl	89	(10 - 199)	
	83	(10 - 199)	

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot 1: A9J300158 Date Sampled: 10/29/09 08:00 Date Received: 10/30/09					Matrix SO		
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #	
MS Lot-Samp	ple #: A9J30	00158-001 Prep 1	Batch #	: 9303242			
Cadmium	91	(75 - 125)		SW846 6010B	10/30-10/31/09	LNJV31AJ	
	93	(75 - 125) 2.3	(0-20)	SW846 6010B	10/30-10/31/09	LNJV31AK	
		Dilution Fac	ctor: 1				
Lead	93	(75 - 125)		SW846 6010B	10/30-10/31/09	LNJV31AL	
	95	(75 - 125) 1.4	(0-20)	SW846 6010B	10/30-10/31/09	LNJV31AM	
		Dilution Fac	ctor: 1				

NOTE(S):

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Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #: A9J300158 Date Sampled: 10/29/09 08:00 Date				Date Receive	Matrix: SO ate Received.: 10/30/09						
PARAMETER	SAMPLE AMOUNT	_	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOL)	PREPARATION- ANALYSIS DATE	WORK ORDER	
MS Lot-Sa	mple #:	A9J3001	58-001	Prep Batch	‡: 93	303242	2			í	
	0.23	6.1	5.7	mg/kg	91		SW846	6010B	10/30-10/31/09	LNJV31	
	0.23	6.1	5.9	mg/kg	93	2.3	SW846	6010B	10/30-10/31/09	LNJV3	
			Dilut	ion Factor: 1							
Lead											
	17.0	60.7	73.7	mg/kg	93		SW846	6010B	10/30-10/31/09	LNJV3	
	17.0	60.7	74.7	mg/kg	95	1.4	SW846	6010B	10/30-10/31/09	LNJV31	
			Dilut	ion Factor: 1						į	

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J300158 Work Order #...: LMWNP-SMP Matrix.....: SOLID

LMWNP-DUP

Date Sampled...: 10/19/09 10:44 Date Received..: 10/20/09

% Moisture....: 31

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 PARAM RESULT
 RESULT
 UNITS
 RPD
 LIMIT
 METHOD
 ANALYSIS
 DATE
 BATCH #

 Percent Solids
 SD Lot-Sample #: A9J200160-006
 SD Lot-Sample #: A9J200160-006
 BATCH #

 68.9
 56.7
 \$ 19
 (0-20)
 MCAWW 160.3 MOD
 10/30-10/31/09 9303320

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J300158 Work Order #...: LMWNR-SMP Matrix....: SOLID

LMWNR-DUP

Date Sampled...: 10/19/09 11:20 Date Received..: 10/20/09

% Moisture....: 20

PREPARATION- PREP DUPLICATE RPD PARAM RESULT RESULT UNITS RPD LIMIT METHOD ANALYSIS DATE BATCI' Percent Solids SD Lot-Sample #: A9J200160-007 (0-20) MCAWW 160.3 MOD 10/30-10/31/09 9303 80.0 78.4 § 2.0

Dilution Factor: 1

CHAIN OF CUSTODY RECORD

	SHIPPED TO (Laboratory Name): REFERENCE NUMBER:															
0		<u> Ga</u>	GA-ROVERS & ASSOCIATES At Anderson 51-639-0923	Test America				054633								
SAI SIGI	MPLER'S NATURE	4	PRINTE NAM	D. PeterS	borlü	ners		£ /		JA CO			1 / 2	8 /	REMARKS	
SEQ. No.	DATE	TIME	SAMPLE No.		SAMP TYPE		OF THE	3/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			Jac.	Sold	, 		
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White	HOD OF			SAMPLE TEAM:		WAY BI		IVE	FOR	LAB	d RATO	ORY I	 BY:			
Yellov Pink		-	Receiving Laboratory CopyShipper Copy		twl	<u></u>			<u> </u>		W	1	1	JO CRA	22397	
Gold	enrod		-Sampler Copy				DATE	VI	05 K	09	ME!	0!0	0An	D) 400 0	8/97(NF) REV.	0/5 15)

TestAmerica Cooler Receipt Form/Narrative	Lot Number: H9J3c	0158
North Canton Facility	A	
	1633 By: AM	V
Cooler Received on 10100 Opened on 101	30 09 // (Signatur	re)
FedEx MUPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐	TestAmerica Courier 🔲 Other	
TestAmerica Cooler # 1.591 Multiple Coolers Foam	Box 🗌 Client Cooler 🔲 Other 🔙	
Were custody seals on the outside of the cooler(s)? Yes		A 🗆
Were custody seals on the outside of cooler(s) signed and dated	? Yes ⊠ No 🗌 N	ΑП
Were custody seals on the bottle(s)?	Yes 🗍 No 🔀	
If YES, are there any exceptions?		
2. Shippers' packing slip attached to the cooler(s)?	Yes 🔀 No 🗌	
3. Did custody papers accompany the sample(s)? Yes X No	Relinquished by client? Y	es 📈 No 🗀
4. Were the custody papers signed in the appropriate place?	Yes ⊠ No □	ا سے ۱۰۰۰بھیو ۵۰
5. Packing material used: Bubble Wrap 🔀 Foam 🗌 None		
	f form for multiple coolers/temps	1
METHOD: IR N Other		
COOLANT: Wet Ice 🔀 Blue Ice 🗌 Dry Ice 🔲 Wate	er None	
7. Did all bottles arrive in good condition (Unbroken)?	Yes ⊠ No □	
8. Could all bottle labels be reconciled with the COC?	Yes 🐼 No 🗆	
9. Were sample(s) at the correct pH upon receipt?		A. 153b
10. Were correct bottle(s) used for the test(s) indicated?	Yes 🕅 No 🗆	
11. Were air bubbles >6 mm in any VOA vials?		A 2≅0
12. Sufficient quantity received to perform indicated analyses?	Yes ⊠ No □	سر
13. Was a trip blank present in the cooler(s)? Yes \(\text{No \(\text{\tint{\text{\tiliext{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\texi}\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\texit{\texit{\text{\texi{\texi{\texi{\texi}\texi{\texi{\texit{\texi}\tin\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texit{\		o b ⊋7;
Contacted PM Date by		
Concerning		_ 0
14. CHAIN OF CUSTODY		
The following discrepancies occurred:	<u> محمد بريان مخمول پريونستان د د د کې پالاستوان د کمانستان يې د د مورون پريونو</u>	
		į
		
		
15. SAMPLE CONDITION		
Sample(s) were received a	after the recommended holding time	nad expired.
Sample(s)	were received in a broke	n container.
	ived with bubble >6 mm in diameter.	(Notify PM)
16. SAMPLE PRESERVATION		
Sample(s)	were further preserved in Sam	ple
Receiving to meet recommended pH level(s). Nitric Acid Lot# 031909-		
Hydroxide Lot# 100108 -NeOH; Hydrochloric Acid Lot# 092006-HCl; Sodium	Hydroxide and Zinc Acetate Lot# 10010	
(CH ₃ COO) ₂ ZN/NaOH. What time was preservative added to sample(s)?	
Client ID pH	Date	<u>Initials</u>

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END OF REPORT



THE LEAVER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Grant Anderson Conestoga-Rovers & Associates, Inc. **PROJECT NO. 54633** Jefferson Yard

SAMPLE SUMMARY

<u>WO #</u>	LABORATORY ID	SAMPLE IDENTIFICATION	
LNPTJ	A9K030418-001	S-091102-PS-JSS9-S2R	Resample of JSS9-S2 8' North
LNPTP	A9K030418-002	S-091102-PS-JSS9-S2RR	dup of S2
LNPTQ	A9K030418-003	S-091102-PS-JSS9-B2R	Resample of JSS9-B2 2' deep

TESTAMERICA LABORATORIES, INC.

Denise DHeckler

Denise D. Heckler

Project Manager

denise.heckler@testamericainc.com

Denise D. Heckler Project Manager 11/9/2009 3:16 PM

November 07, 2009

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720 Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com



CASE NARRATIVE

A9K030418

The following report contains the analytical results for three solid samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 54633. The samples were received November 03, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson, Pete Storlie, and Steve Voss on November 04, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.9°C.

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POLYCHLORINATED BIPHENYLS-8082

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 9307036 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

The matrix spike/matrix spike duplicate(s) for S-091102-PS-JSS9-B2R had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropr ate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recover es, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

• Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone	1	Lead, Calcium,	
		Magnesium, Potassium,	İ
		Sodium, Barium,	
l		Chromium, Manganese	

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blank's will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD nay not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certair methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit

EXECUTIVE SUMMARY - Detection Highlights

A9K030418

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-091102-PS-JSS9-S2R 11/02/09 14:00	001			
Aroclor 1254 Lead Cadmium Percent Solids	21 J 62.9 J 0.34 B 85.5	39 0.35 0.58 10.0	ug/kg mg/kg mg/kg %	SW846 8082 SW846 6010B SW846 6010B MCAWW 160.3 MOD
S-091102-PS-JSS9-S2RR 11/02/09 14:00	0 002			•
Aroclor 1254 Lead Cadmium Percent Solids	20 J 63.4 J 0.32 B 85.4	39 0.35 0.59 10.0	ug/kg mg/kg mg/kg %	SW846 8082 SW846 6010B SW846 6010B MCAWW 160.3 MOD
S-091102-PS-JSS9-B2R 11/02/09 14:00	003			İ
Aroclor 1260 Lead Cadmium Percent Solids	19 J 110 J 0.50 B 88.6	37 0.34 0.56 10.0	ug/kg mg/kg mg/kg %	SW846 8082 SW846 6010B SW846 6010B MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A9K030418

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals PCBs by SW-846 8082	SW846 6010B SW846 8082
Total Residue as Percent Solids Trace Inductively Coupled Plasma (ICP) Metals	MCAWW 160.3 MOD SW846 6010B
References:	
MCAWW "Methods for Chemical Analysis of W	ater and Wastes",

3W846

EPA-600/4-79-020, March 1983 and subsequent revisions.

Methods", Third Edition, November 1986 and its updates.

"Test Methods for Evaluating Solid Waste, Physical/Chemical

SAMPLE SUMMARY

A9K030418

<u>WO # 5</u>	SAMPLE	CLIENT SAMPLE ID	SAMPLED DATE	SAM
LNPTJ	001	S-091102-PS-JSS9-S2R	11/02/09	14
LNPTP	002	S-091102-PS-JSS9-S2RR	11/02/09	14:
LNPTÇ	003	S-091102-PS-JSS9-B2R	11/02/09	14

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Resample of JSS9-S2 8' North

Client Sample ID: S-091102-PS-JSS9-S2R

GC Semivolatiles

Lot-Sample #:	A9K030418-001	Work Order #: LNPTJ1AA	Matrix SO

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09 Prep Date....: 11/03/09 Analysis Date..: 11/04/09

Prep Batch #...: 9307218

Dilution Factor: 1

% Moisture....: 14 **Method.....:** SW846 8082

		REPORTIN	IG	•
PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	16
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	21 J	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20
	PERCENT	RECOVERY	•	
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	94	(10 - 19	(6)	
Decachloropiphenyl	116	(10 - 19	9)	

NOTE (S):

J Estimated result. Result is less than RL.

Client Sample ID: S-091102-PS-JSS9-S2R

TOTAL Metals

		Received.	- - 11/03/09	Matrix:	so
: 14	11.00 Date	1100011001	11/03/03		
	REPORTI	NG		PREPARATION-	WORK
RESULT	<u>LIMIT</u>	UNITS	METHOD	ANALYSIS DATE	ORDER
: 9307284	0 50	ma/ka	CW0 <i>4.</i> C CO1.0D	11/02-11/04/00	T NDT T1 i
U.34 B		J. J	MDL 0.042	11/03-11/04/09	IMPIUIA
62.9 J	0.35 Dilution Fa	mg/kg	SW846 6010B	11/03-11/04/09	LNPTJ1
	: 11/02/09: 14	REPORTI RESULT 14 REPORTI LIMIT 10 10 10 10 10 10 10 10 10 1	: 11/02/09 14:00 Date Received: 14 REPORTING LIMIT UNITS: 9307284 0.34 B 0.58 mg/kg Dilution Factor: 1	: 11/02/09 14:00 Date Received: 11/03/09: 14 REPORTING LIMIT UNITS METHOD : 9307284 0.34 B 0.58 mg/kg SW846 6010B Dilution Factor: 1 MDL: 0.042 62.9 J 0.35 mg/kg SW846 6010B	: 11/02/09 14:00 Date Received: 11/03/09: 14 REPORTING PREPARATION—ANALYSIS DATE : 9307284 0.34 B 0.58 mg/kg SW846 6010B Dilution Factor: 1 MDL

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client Sample ID: S-091102-PS-JSS9-S2R

General Chemistry

Lot-Sample | ...: A9K030418-001 | Work Order | ...: LNPTJ | Matrix...... SO

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09

% Moisture....: 14

Held

1114

11.1

M

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH #

 Percent Solids
 85.5
 10.0
 %
 MCAWW 160.3 MOD
 11/03-11/04/09
 9307363

Dilution Factor: 1 MDL..... 10.0

11 of 37

dup of S2

Client Sample ID: S-091102-PS-JSS9-S2RR

GC Semivolatiles

Lot-Sample #:	A9K030418-002	Work Order #: LNPTP1AA	Matrix SO
Date Sampled .	11/02/09 14.00	Date Received • 11/03/09	

Prep Date: 11/02/09 14:00 Date Received..: 11/03/09
Prep Date....: 11/03/09
Analysis Date..: 11/04/09

Prep Batch #...: 9307218

Dilution Factor: 1

% Moisture....: 15 **Method.....:** SW846 8082

		REPORTIN	G	•
PARAMETER	RESULT	LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	16
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	. 39	ug/kg	20
Aroclor 1254	20 J	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	109	(10 - 19	6)	
Decachlorooiphenyl	112	(10 - 19	9)	

NOTE (S):

J Estimated result. Flesult is less than RL.

Client Sample ID: S-091102-PS-JSS9-S2RR

TOTAL Metals

Lot-Sample #...: A9K030418-002 Matrix.....: S0

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09

% Moisture....: 15

PARAMETER	RESULT	REPORTIN	G <u>UNITS</u>	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch # Cadmium	: 9307284 0.32 B	0.59 Dilution Fact	mg/kg	SW846 6010B MDL: 0.042	11/03-11/04/09	LNPTP1AC
Lead	63.4 J	0.35 Dilution Fact	mg/kg	SW846 6010B MDL	11/03-11/04/09	LNPTP1AD

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client Sample ID: S-091102-PS-JSS9-S2RR

General Chemistry

Lot-Sample #...: A9K030418-002 Work Order #...: LNPTP Matrix.....: SO

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09

% Moisture....: 15

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH

 Percent Solids
 85.4
 10.0
 %
 MCAWW 160.3 MOD
 11/03-11/04/09
 9307363

Dilution Factor: 1 MDL..... 10.0

Resample of JSS9-B2 2' deep

Client Sample ID: S-091102-PS-JSS9-B2R

GC Semivolatiles

Lot-Sample #:	A9K030418-003	Work Order #:	LNPTQ1AA	Matrix SO
Date Sampled:	11/02/09 14:00	Date Received:	11/03/09	
Prep Date:	11/03/09	Analysis Date:	11/04/09	

Prep Date....: 11/03/09
Prep Batch #...: 9307218

Dilution Factor: 1

% Moisture....: 11 **Method.....:** SW846 8082

		REPORTIN	1G		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	37	ug/kg	24	
Aroclor 1221	ND	37	ug/kg	18	
Aroclor 1232	ND	37	ug/kg	16	
Aroclor 1242	N D	. 37	ug/kg	15	
Aroclor 1248	ND	37	ug/kg	19	
Aroclor 1254	ND	37	ug/kg	19	
Aroclor 1260	19 J	37	ug/kg	19	
	PERCENT	RECOVERY			
SURROGATE	RECOVERY	LIMITS			
Tetrachloro-m-xylene	120	(10 - 19	06)		
Decachlorobiphenyl	111	(10 - 19	9)		

NOTE (S):

liik.

J Estimated result. Result is less than RL.

Client Sample ID: S-091102-PS-JSS9-B2R

TOTAL Metals

	: A9K03041 : 11/02/09 : 11		Received.	.: 11/03/09	Matrix:	so
		REPORTI	NG		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER
Prep Batch # Cadmium	: 9307284 0.50 B	0.56 Dilution Fac	mg/kg	SW846 6010B MDL	11/03-11/04/09	LNPTQ1
Lead	110 J	0.34 Dilution Fac	mg/kg	SW846 6010B MDL 0.21	11/03-11/04/09	LNPTQ1

NOTE (S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client Sample ID: S-091102-PS-JSS9-B2R

General Chemistry

Lot-Sample | ...: A9K030418-003 | Work Order | ...: LNPTQ | Matrix....... SO

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09

% Moisture....: 11

114

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Percent Solids
 88.6
 10.0
 %
 MCAWW 160.3 MOD
 11/03-11/04/09
 9307363

Dilution Factor: 1 MDL..... 10.0



QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9K030418 Work Order #...: LNPV11AA Matrix.....: SOLID

MB Lot-Sample #: A9K030000-218

Prep Date...: 11/03/09
Analysis Date..: 11/04/09
Prep Batch #...: 9307218

Dilution Factor: 1

hill

		REPORTI	NG	
PARAMETER	RESULT	LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Arocler 1242	ND	33	ug/kg	SW846 8082
Aroclor 1243	ND	33	ug/kg	SW846 8082
Arocler 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082
	PERCENT	RECOVER	Y	
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	67	(10 - 19)	96)	
Decachlorobiphenyl	86	(10 - 19)	99)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

				Matrix SOLID
		_	MUMUOD	PREPARATION- WORK
RESULT	LIMIT_	UNITS	METHOD	ANALYSIS DATE ORDER
: A9K030000	-284 Prep I	Batch #:	9307284	
ND	0.50	mg/kg	SW846 601	10B 11/03~11/04/09 LNP2E
	Dilution Fac	ctor: 1		
0.42	0.30	mg/kg	SW846 601	10B 11/03-11/04/09 LNP2E
	Dilution Fac	tor: 1		
	ND	RESULT LIMIT 1: A9K030000-284 Prep I ND 0.50 Dilution Fact 0.42 0.30	#: A9K030000-284 Prep Batch #: ND 0.50 mg/kg Dilution Factor: 1	RESULT LIMIT UNITS METHOD 1: A9K030000-284 Prep Batch 1: 9307284 ND 0.50 mg/kg SW846 60 Dilution Factor: 1 0.42 0.30 mg/kg SW846 60

METHOD BLANK REPORT

General Chemistry

Client Lot | ...: A9K030418

Matrix..... SOLID

		REPORTING	3		PREPARATION-	PREP
PAFAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	BATCH #
Percent Solids		Work Order	#: LNQD31AA	MB Lot-Sample #:	A9K030000-363	
	ND	10.0	%	MCAWW 160.3 MOD	11/03-11/04/09	9307363
		Diding the Bear	1			

Dilution Factor: 1

NOTE(S):

14

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K030418 Work Order #...: LNPV11AC Matrix.....: SOLID

LCS Lot-Sample#: A9K030000-218

Prep Batch #...: 9307218

Dilution Factor: 1

PERCENT RECOVERY PARAMETER RECOVERY LIMITS METHOD Aroclor 1016 77 (34 - 127)SW846 8082 Aroclor 1260 (32 - 141)SW846 8082 81 PERCENT RECOVERY SURROGATE RECOVERY LIMITS $(10 - \overline{196})$ Tetrachloro-m-xylene Decachlorcbiphenyl 93 (10 - 199)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K030418 Work Order #...: LNPV11AC Matrix.....: SOLID

LCS Lot-Sample#: A9K030000-218

Prep Date....: 11/03/09 Analysis Date..: 11/04/09

Prep Batch #...: 9307218

Dilution Factor: 1

	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
Aroclor 1016	330	260	ug/kg	77	SW846 8082
Aroclor 1260	330	270	ug/kg	81	SW846 8082

SURROGATEPERCENTRECOVERYTetrachloro-m-xylene66(10 - 196)Decachlorobiphenyl93(10 - 199)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #: A9K030418				Matrix	: SOLID
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: Cadmium	A9K030000- 99	_	tch #: 9307284 SW846 6010B or: 1	11/03-11/04/09	LNP2E1AD
Lead	99	(80 - 120) Dilution Facto	SW846 6010B	11/03-11/04/09	LNP2E1AE

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #: A9K030418 Matrix							SOLID
PARAMETER	SPIKE AMOUNT	MEASURE AMOUNT	D UNITS	PERCNT RECVRY	METHOD		WORK ORDER #
LCS Lot-Sam	ple#: A9F	K030000-2	84 Prep Ba	atch #	: 9307284		
Cadmium	5.0	5.0	mg/kg	99	SW846 6010B	11/03-11/04/09	LNP2E1AD
			Dilution Fact	or: 1			
Lead	50.0	49.5	mg/kg	99	SW846 6010B	11/03-11/04/09	LNP2E1AE
			Dilution Fact	or: 1			
NOTE (S) ·							

MOTE (2):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K030418 Work Order #...: LNKR41AU-MS Matrix..... SOLID

MS Lot-Sample #: A9J300250-001 LNKR41AV-MSD

Date Sampled...: 10/29/09 14:30 Date Received..: 10/30/09 Prep Date....: 11/03/09 Analysis Date..: 11/04/09

Prep Batch #...: 9307036

Dilution Factor: 1 % Moisture....: 100

	PERCENT	RECOVERY		RPD	
PARAMETER	RECOVERY	LIMITS	RPD_	LIMITS	METHOD
Aroclor 1016	45	(10 - 199)			SW846 8082
	66 p	(10 - 199)	37	(0-30)	SW846 8082
Aroclor 1260	48	(10 - 199)			SW846 8082
	66	(10 - 199)	30	(0-30)	SW846 8082
		PERCENT		RECOVERY	
SURROGATE		RECOVERY		LIMITS	
Tetrachloro-m-xylene		77		(10 - 19	6)
		107		(10 - 19	6)
Decachlorobiphenyl		582 *		(10 - 19	9)
		1930 *		(10 - 19	9)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

^{*} Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K030418 Work Order #...: LNKR41AU-MS Matrix.....: SOLID

MS Lot-Sample #: A9J300250-001 LNKR41AV-MSD

Date Sampled...: 10/29/09 14:30 Date Received..: 10/30/09
Prep Date....: 11/03/09 Analysis Date..: 11/04/09

Prep Batch #...: 9307036

Dilution Factor: 1 % Moisture....: 100

	SAMPLE	SPIKE	MEASRD		PERCNT		
PARAMETER	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD
Aroclor 1016	ND	330	150	ug/kg	45		SW846 8082
	ND	330	220	ug/kg	66 p	37	SW846 8082
Aroclor 1260	ND	330	160	ug/kg	48		SW846 8082
	ND	330	220	ug/kg	66	30	SW846 8082

	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Tetrachloro-m-xylene	77	(10 - 196)	
	107	(10 - 196)	
Decachlorobiphenyl	582 *	(10 - 199)	
-	1930 *	(10 - 199)	

NOTE (S):

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Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

- p Relative per difference (RPD) is outside stated control limits.
- Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K030418 Work Order #...: LNPTQ1AF-MS Matrix.....: SO

MS Lot-Sample #: A9K030418-003 LNPTQ1AG-MSD

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09 Prep Date.....: 11/03/09 Analysis Date..: 11/04/09

Prep Batch #...: 9307218

Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	
Aroclor 1016	99	(10 - 199)			SW846 8082	
	97	(10 - 199)	2.0	(0-30)	SW846 8082	
Aroclor 1260	92	(10 - 199)			SW846 8082	
	88	(10 - 199)	4.0	(0-30)	SW846 8082	
SURROGATE	_	PERCENT RECOVERY	•	RECOVERY LIMITS	_	
Tetrachloro-m-xylene		116		(10 - 196)		
		103		(10 - 196)	5)	
Decachlorobiphenyl		113		(10 - 199))	
		108		(10 - 199	9)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K030418 Work Order #...: LNPTQ1AF-MS Matrix..... SO

MS Lot-Sample #: A9K030418-003 LNPTQ1AG-MSD

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09
Prep Date....: 11/03/09 Analysis Date..: 11/04/09

Prep Batch #...: 9307218

Dilution Factor: 1

М

	SAMPLE	SPIKE	MEASRD		PERCNT		
PARAMETER	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD
Aroclor 1016	ND	380	370	ug/kg	99		SW846 8082
	ND	370	370	ug/kg	97	2.0	SW846 8082
Aroclor 1260	19	380	360	ug/kg	92		SW846 8082
	19	370	350	ua/ka	88	4.0	SW846 8082

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Tetrachloro-m-xylene	116	(10 - 196)
	103	(10 - 196)
Decachlorobiphenyl	113	(10 - 199)
	108	(10 - 199)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9K030418 Matrix.....: S0

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09

PARAMETER	PERCENT RECOVERY	RECOVERY RPD LIMITS RPD LIMITS	METHOD	PREPARATION- WORK ANALYSIS DATE ORDER	<u>#</u>
MS Lot-Samp1	e #: A9K03	0418-003 Prep Batch #.	: 9307284		
Cadmium	90	(75 - 125)	SW846 6010B	11/03-11/04/09 LNPTQ1	AΗ
	91	(75 - 125) 0.84 (0-20)	SW846 6010B	11/03-11/04/09 LNPTQ1	ΑJ
		Dilution Factor: 1			
Lead	138 N	(75 - 125)	SW846 6010B	11/03-11/04/09 LNPTQ1	AK
	136 N	(75 - 125) 0.63 (0-20)	SW846 6010B	11/03-11/04/09 LNPTQ1	ΑL
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting imits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09

PARAMETER	SAMPLE AMOUNT		MEASRD AMOUNT	UNITS	PERCNT RECVRY		METHOL)	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sam	mple #:	А9К0304	18-003	Prep Batch	‡: 9	30728/	4			
Cadmium										1
C	0.50	5.6	5.6	mg/kg	90		SW846	6010B	11/03-11/04/09	LNPTQ1AH
C	0.50	5.6	5.6	mg/kg	91	0.84	SW846	6010B	11/03-11/04/09	LNPTQ1AJ
			Dilut	tion Factor: 1						
Lead										
1	11)	56.4	188 N	mg/kg	138		SW846	6010B	11/03-11/04/09	LNPTQ1AK
1	110	56 .4	187 N	mg/kg	136	0.63	SW846	6010B	11/03-11/04/09	LNPTQ1AL
			Dilut	tion Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9K030418 Work Order #...: LNLQN-SMP Matrix.....: SOLID

LNLQN-DUP

Date Sampled...: 10/29/09 09:23 Date Received..: 10/30/09

% Moisture....: 13

 DUPLICATE
 RPD
 PREPARATION-PREP

 PARAM RESULT
 RESULT
 UNITS
 RPD
 LIMIT
 METHOD
 ANALYSIS DATE
 BATCH

 Percent Solids
 SD Lot-Sample #: A9J300352-010
 SD Lot-Sample #: A9J300352-010
 BATCH

 87.0
 87.1
 %
 0.14 (0-20)
 MCAWW 160.3 MOD
 11/03-11/04/09
 9307

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot ‡...: A9K030418 Work Order ‡...: LNPTQ-SMP Matrix.....: SO

LNPTQ-DUP

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09

% Moisture....: 11

	DUPLICATE			RPD		PREPARATION-	PREP
PARAM RESULT	RESULT	UNITS	RPD	LIMIT	METHOD	ANALYSIS DATE	BATCH #
Percent Solids					SD Lot-Sample #:	A9K030418-003	
88.6	88.9	9	0.36	(0-20)	MCAWW 160.3 MOD	11/03-11/04/09	9307363

Dilution Factor: 1

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TestAmerica Cooler	Receipt Form/Narrative	Lot Number: A SK 030 418
North Canton Facili		
Client CRA	Project 54633	By: Chi din
Cooler Received on	//-3-09 Opened on //-3-09	(Signature)
FedEx X UPS DHL	☐ FAS ☐ Stetson ☐ Client Drop Off ☐ Test	America Courier Other
TestAmerica Cooler #	<u>∠328</u> Multiple Coolers ☐ Foam Box ☐	Client Cooler Other
 Were custody seals o 	n the outside of the cooler(s)? Yes 🔯 No 🗀 Quantity Unsalvageable	Intact? Yes ☑ No ☐ NA ☐
	n the outside of cooler(s) signed and dated?	Yes ⊠ No □ NA □
Were custody seals o	1, ,	Yes □ No 🛛
If YES, are there any	· ·	
2. Shippers' packing slip	attached to the cooler(s)?	Yes 🛛 No 🗌
· · · · · · · · · · · · · · · · · · ·	company the sample(s)? Yes 🗓 No 🗌	Relinquished by client? Yes X No
	ers signed in the appropriate place?	Yes ⊠ No □
	l: Bubble Wrap ဩ Foam ☐ None ☐ 🤇	Other
	oon receipt 3.9 °C See back of form	
	R	
		None □
7. Did all bottles arrive in	good condition (Unbroken)?	Yes 🖸 No 🔲
B. Could all bottle labels	be reconciled with the COC?	Yes 🗹 No 🗌
9. Were sample(s) at the	correct pH upon receipt?	Yes 🗌 No 🔲 NA 🛭
• • •	used for the test(s) indicated?	Yes ☑ No ☐
11. Were air bubbles >6 n	• •	Yes 🗌 No 🗍 NA 🛮
	eived to perform indicated analyses?	Yes 🛛 No 🗍
•	ent in the cooler(s)? Yes 🔲 No 🗹 Were Vo	DAs on the COC? Yes 🗍 No 🗗
	Date by	
Concerning		
The following discrepance	the control of the co	
15. SAMPLE CONDITION		ne recommended holding time had expire
Sample(s)	wole received after th	were received in a broken containe
Sample(s)		
Sample(s)		vith bubble >6 mm in diameter. (Notify PN
16. SAMPLE PRESERVA		
Sample(s)		were further preserved in Sample
	nended pH level(s). Nitric Acid Lot# 031909-HNO3;	
	OH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydro	oxide and ∠inc Acetate Lot# 100108-
	t time was preservative added to sample(s)?	
Client ID	На	<u>Date</u> <u>Initials</u>

I

TestAmerica Coole North Canton Facili	r Receipt Form/Narrative		
Client ID	여	Date	Initials
			
Cooler#	Temp. °C	Method	Coolant
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Discrepancies Confid			
			
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III.

END OF REPORT



ANALYTICAL REPORT

Grant Anderson Conestoga-Rovers & Associates, Inc. **PROJECT NO. 054633 JEFFERSON YARD**

SAMPLE SUMMARY

<u>WO #</u>	LABORATORY ID	SAMPLE IDENTIFICATION
LM974	A9J260134-001	TSCA SOIL
LM975	A9J260134-002	TSCA STABILIZED
LM98C	A9J260134-003	NON-TSCA STABILIZED

TESTAMERICA LABORATORIES, INC.

Denise D. Heckler

Project Manager

Denise DHeckler

denise.heckler@testamericainc.com

October 29, 2009

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720 Tel (330)497-9396 =ax (330)497-0772 www.testamericainc.com



Denise D. Heckler Project Manager 10/29/2009 9:51 AM

CASE NARRATIVE

A9J260134

The following report contains the analytical results for three solid samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 054633. The samples were received October 26, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson, Pete Storlie and Steve Voss on October 28, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.4°C.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

OC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

• Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone		Lead, Calcium,	
		Magnesium, Potassium,	
		Sodium, Barium,	[
		Chromium, Manganese	·

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.—California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit

EXECUTIVE SUMMARY - Detection Highlights

A9J260134

		REPORTIN	IG	ANALYTICAL
PARAMETER	RESULT	LIMIT	UNITS	METHOD
TSCA SOIL 10/23/09 11:35 001				
Barium - TCLP	0.74 B	10.0	mg/L	SW846 6010B
Cadmium - TCLP	0.026 B	0.10	mg/L	SW846 6010B
Lead - TCLP	0.18 B	0.50	mg/L	SW846 6010B
TSCA STABILIZED 10/23/09 11:35 00	2			
Barium - TCLP	0.70 B	10.0	mg/L	SW846 6010B
Cadmium - TCLP	0.075 B	0.10	mg/L	SW846 6010B
Chromium - TCLP	0.0026 B	0.50	mg/L	SW846 6010B
Lead - TCLP	0.38 B	0.50	mg/L	SW846 6010B
Selenium - TCLP	0.0052 B	0.25	mg/L	SW846 6010B
NON-TSCA STABILIZED 10/23/09 14:15	003		·	
Barium - TCLP	0.79 B	10.0	mg/L	SW846 6010B
Cadmium - TCLP	0.22	0.10	mg/L	SW846 6010B
Lead - TCLP	2.1	0.50	mg/L	SW846 6010B
Selenium - TCLP	0.0057 B	0.25	mg/L	SW846 6010B

ANALYTICAL METHODS SUMMARY

A9J260134

PARAMETER	ANALYTICAL METHOD
<pre>Inductively Coupled Plasma (ICP) Metals Mercury in Liquid Waste (Manual Cold-Vapor)</pre>	SW846 6010B SW846 7470A

References:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A9J260134

WO # S	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAM TIL
LM974	001	TSCA SOIL	10/23/09	11
LM975	002	TSCA STABILIZED	10/23/09	11;
LM98C	003	NON-TSCA STABILIZED	10/23/09 10/23/09	14

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TSCA SOIL

TCLP Metals

 Date Sampled...:
 10/23/09 11:35
 Date Received...
 10/26/09

 Leach Date.....:
 10/26/09
 Leach Batch #...
 P929905

PARAMETER	RESULT	REPORTIN	NG UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #.		0.50	/-	CT-0.4.C. CD-1.0.D.	10/07/10/00/00	
Arsenic	ND	0.50 Dilution Fac	J .	SW846 6010B		LM9/41AD
Barium	0.74 B	10.0	mg/L	SW846 6010B	10/27-10/28/09	LM9741AE
		Dilution Fac	ctor: 1	MDL 0.0	0067	
Cadmium	0.026 в	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM9741AF
		Dilution Fac	ctor: 1	MDL 0.0	0066	
Chromium	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9741AG
		Dilution Fac	ctor: 1	MDI 0.0	022	
Lead	0.18 B	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9741AH
		Dilution Fac	ctor: 1	MDL 0.0	019	
Selenium	ND	0.25	mg/L	SW846 6010B	10/27-10/28/09	LM9741AJ
		Dilution Fac	ctor: 1	MDL 0.0	041	
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9741AK
		Dilution Fac	ctor: 1	MDL 0.0	022	
Mercury	ND	0.0020	mg/L	SW846 7470A	10/27/09	LM9741AC
	***	Dilution Fac		MDL 0.0	-, , -	

NOTE (S) .

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TSCA STABILIZED

TCLP Metals

Lot-Sample #	.: A9J260134	-002			Matrix:	SO
Date Sampled Leach Date				.: 10/26/09 .: P929802		
Leach Date	• 10/23/09	L e aci.	l Daten T.	•: P923002		
		REPORTIN			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	<u>UNITS</u>	METHOD	ANALYSIS DATE	ORDER
Prep Batch #	.: 9299014					
Arsenic	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9751
		Dilution Fac	tor: 1	MDL 0.003	32	•
Barium	0.70 В	10.0	mg/L	SW846 6010B	10/27-10/28/09	LM9751
		Dilution Fac	tor: 1	MDL 0.000)67	
Cadmium	0.075 в	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM9751AF
		Dilution Fac	_	MDL 0.000)66	
Chromium	0.0026 B	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9751AG
		Dilution Fac	tor: 1	MDL 0.002	:2	
Lead	0.38 B	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9751AH
		Dilution Fac	tor: 1	MDL 0.001	.9	H
Selenium	0.0052 B	0.25	mg/L	SW846 6010B	10/27-10/28/09	LM9751AC
		Dilution Fac	.tor: 1	MDL 0.004	,1	K (1
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9751
		Dilution Fac	tor: 1	MDL 0.002	.2	-
Mercury	ND	0.0020	mq/L	SW846 7470A	10/27/09	LM9751
4		Dilution Fac	-	MDL 0.300		

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: NON-TSCA STABILIZED

TCLP Metals

Lot-Sample # Date Sampled Leach Date	.: 10/23/09	14:15 Date R		: 10/26/09 : P929905		
PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	.: 9300019					
Arsenic	ND	0.50 Dilution Facto	-	SW846 6010B		LM98C1A
Barium	0.79 B	10.0 Dilution Facto	_	SW846 6010B	• •	LM98C1A
Cadmium	0.22	0.10 Dilution Facto	-	SW846 6010B MDL		LM98C1A
Chromium	ND	0.50 Dilution Facto	-	SW846 6010B		LM98C1A
Lead	2.1	0.50 Dilution Facto	_	SW846 6010B		LM98C12
Seleriu.	J.J057 B	0.25 Dilution Facto	_	MD: 0.0041		LM98C12
Silver			m~/*	Ç.	27-10/28/09	LM98C1
Ме	סע	0.0t Dilumien Facto	or: 1	.646 7470A	10/27 /0 9	LM98C1
NOTE (C)		- -				
Analysis personne in a B Estimated result. P		, , ,	Procedule Metro	1		



QUALITY CONTROL SECTION

TCLP Metals

PAFAMETER		REPORTIN	1G			PREPARATION-	WOR
	RESULT	LIMIT	UNITS	METHO)	ANALYSIS DATE	ORD
MB Lot-Sample	#: A9J250000	-023 Prep I	Batch #:	9299014			
Leach Date	: 10/25/09	Leach	Batch #	P929802			
Arsenic	ND	0.50	mg/L	SW846	6010B	10/27-10/28/09	LM9
		Dilution Fac	tor: 1				
Barium	0.0036 B	10.0	mg/L	SW846	6010B	10/27-10/28/09	LM9
		Dilution Fac	tor: 1				
Cadmium	ND	0.10	mg/L	SW846	6010B	10/27-10/28/09	LM9I
		Dilution Fac	tor: 1				
Chromium	0.0046 B	0.50	mg/L	SW846	6010B	10/27-10/28/09	LM9I
		Dilution Fac	_				
Lead	ND	0.50	mg/L	SW846	6010B	10/27-10/28/09	LM91
		Dilution Fac	-				
Selenium	0.0067 в	0.25	mg/L	SW846	6010B	10/27-10/28/09	LM9i
		Dilution Fac	tor: 1				
Silver	ND	0.50	mg/L	SW846	6010B	10/27-10/28/09	LM9I
		Dilution Fac	tor: 1				
Mercury	ND	0.0020	mg/L	SW846	7470A	10/27/09	LM9I
_		Dilution Fac	tor: 1				
MR Lot-Sample	. ♣• ໓9.⊺260000	-145 Pren F	latch #	9300019			
MB Lot-Sample Leach Date			Batch #:				
Leach Date					6010B	10/27-10/28/09	LM9
Leach Date	: 10/26/09	Leach	Batch #:	P929905	6010B	10/27-10/28/09	L M 97
	: 10/26/09	Leach	Batch #:	P929905		10/27-10/28/09 10/27-10/28/09	
Leach Date Arsenic	.:: 10/26/09 ND	Leach 0.50 Dilution Fac	<pre>Batch #: mg/L tor: 1 mg/L</pre>	P929905 SW846			
Leach Date Arsenic	.:: 10/26/09 ND	Leach 0.50 Dilution Fac	<pre>Batch #: mg/L tor: 1 mg/L</pre>	P929905 SW846	6010B		LM9
Leach Date Arsenic Barium	.:: 10/26/09 ND 0.0017 B	Leach 0.50 Dilution Fac 10.0 Dilution Fac	<pre>mg/L tor: 1 mg/L tor: 1 mg/L mg/L</pre>	P929905 SW846 SW846	6010B	10/27-10/28/09	LM9
Leach Date Arsenic Barium Cadmium	.:: 10/26/09 ND 0.0017 B	Leach 0.50 Dilution Fac 10.0 Dilution Fac 0.10	<pre>mg/L tor: 1 mg/L tor: 1 mg/L mg/L</pre>	P929905 SW846 SW846	6010B 6010B	10/27-10/28/09	LM9'
Leach Date Arsenic Barium	.:: 10/26/09 ND 0.0017 B	Leach 0.50 Dilution Fac 10.0 Dilution Fac 0.10 Dilution Fac	mg/L tor: 1 mg/L tor: 1 mg/L tor: 1 mg/L tor: 1 mg/L	P929905 SW846 SW846 SW846	6010B 6010B	10/27-10/28/09 10/27 - 10/28/09	LM9'
Leach Date Arsenic Barium Cadmium	.:: 10/26/09 ND 0.0017 B	Leach 0.50 Dilution Fac 10.0 Dilution Fac 0.10 Dilution Fac	mg/L tor: 1 mg/L tor: 1 mg/L tor: 1 mg/L tor: 1 mg/L	P929905 SW846 SW846 SW846	6010B 6010B	10/27-10/28/09 10/27 - 10/28/09	LM9\

TCLP Metals

Client Lot #...: A9J260134

Matrix SC	LID
PREPARATION-	WORK

		REPORTIN	G		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER :
Selenium	ND	0.25	mg/L	SW846 6010B	10/27-10/28/09	LM9VE1AK
		Dilution Fac	tor: 1			
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9VE1AL
		Dilution Fac	tor: 1			m.m.
Mercury	ND	0.0020	mg/L	SW846 7470A	10/27/09	LM9VE1
		Dilution Fac	tor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

TCLP Metals

CITCHE DOC #	.: A9J26013	34			Matrix	: SOLID
PARAMETER	RESULT	REPORTING LIMIT	G UNITS	METHOD	PREPARAT	
MB Lot-Sample	#: A9J26000	0-014 Prep B	atch #:	9299014		
Arsenic	ND	0.50 Dilution Fact	mg/L or: 1	SW846 6010B	10/27-10)/28/09 LM9N
Barium	ND	10.0 Dilution Fact	mg/L .or: 1	SW846 6010B	10/27-10)/28/09 LM9N
Cadmium	ND	0.10 Dilution Fact	mg/L or: 1	SW846 6010B	10/27-10)/28/09 LM9N
Chromium	ND	0.50 Dilution Fact	mg/L or: 1	SW846 6010B	10/27-10)/28/09 LM9N
Lead	ND	0.50 Dilution Fact	mg/L or: 1	SW846 6010B	10/27-10)/28/09 LM9N
Selenium	ND	0.25 Dilution Fact	mg/L or: 1	SW846 6010B	10/27-10)/28/09 LM9N
Silver	ND	0.50 Dilution Fact	mg/L or: 1	SW846 6010B	10/27-10)/28/09 LM9N
Mercury	ND	0.0020 Dilution Fact	mg/L or: 1	SW846 7470A	10/27/09) LM9N
MB Lot-Sample					10/27 10)/20/00 TNAS
Arsenic	ND	0.50 Dilution Fact	mg/L .or: 1	SW846 6010B	10/2/-10)/28/09 LNAV
Barium	ND	10.0 Dilution Fact	mg/L or: 1	SW846 6010B	10/27-10	0/28/09 LNAV
Cadmium	ND	0.10 Dilution Fact	-	SW846 6010B	10/27-10)/28/09 LNAV
Chromium	ND	0.50 Dilution Fact	-	SW846 6010B	10/27-10)/28/09 LNAV
Lead	ND	0.50 Dilution Fact	-	SW846 6010B	10/27-10)/28/09 LNAV
Selenium	ND	0.25	mg/L	SW846 6010B	10/27-10)/28/09 LNAV

TCLP Metals

Client Lot #: A9J260134		Matrix:	SOLID
_	ARDODETIA.		WORK

PARAMETER	RESULT	REPORTIN LIMIT	G UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LNAVM1AF
		Dilution Fac	tor: 1			
Mercury	ND	0.0020 Dilution Fac	mg/L tor: 1	SW846 7470A	10/27/09	LNAVM1A1
NOTE(S):						

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #:	A9J260134			Matrix	: SOLID
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: Arsenic	A9J260000-		tch #: 9299014 SW846 6010B or: 1	10/27-10/28/09	LM9ND1AL
Barium	106	(50 - 150) Dilution Facto	SW846 6010B	10/27-10/28/09	LM9ND1AM
Cadmium	108	(50 - 150) Dilution Facto	SW846 6010B	10/27-10/28/09	LM9ND1AN
Chromium	101	(50 - 150) Dilution Facto	SW846 6010B	10/27-10/28/09	LM9ND1AP
Lead	106	(50 - 150) Dilution Facto	SW846 6010B	10/27-10/28/09	LM9ND1AQ
Selenium	113	(50 - 150) Dilution Facto	SW846 6010B	10/27-10/28/09	LM9ND1AR
Silver	122	(50 - 150) Dilution Facto	SW846 6010B	10/27-10/28/09	LM9ND1AT
Mercury	106	(50 - 150) Dilution Facto	SW846 7470A r: 1	10/27/09	LM9ND1AK
LCS Lot-Sample#: Arsenic	A9J270000-0	_	tch #: 9300019 SW846 6010B r: 1	10/27-10/28/09	LNAVM1AP
Barium	106	(50 - 150) Dilution Facto	SW846 6010B	10/27-10/28/09	LNAVM1AQ
Cadmium	107	(50 - 150) Dilution Facto	SW846 6010B	10/27-10/28/09	LNAVM1AR
Chromium	103	(50 - 150) Dilution Facto	SW846 6010B r: 1	10/27-10/28/09	LNAVM1AT
Lead	109	(50 - 150) Dilution Facto	SW846 6010B r: 1	10/27-10/28/09	LNAVM1AU

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #: A9J260134	Matrix SOLID

PARAMETER Selenium	PERCENT RECOVERY 113	RECOVERY LIMITS (50 - 150) Dilution Fact	METHOD SW846 6010B or: 1	PREPARATION- ANALYSIS DATE 10/27-10/28/09	WORK ORDER # LNAVM1AV
Silver	118	(50 - 150) Dilution Fact		10/27-10/28/09	LNAVM1AW
Mercury	116	(50 - 150) Dilution Fact	SW846 7470A or: 1	10/27/09	LNAVM1AX

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

	Client Lot	: A9J	260134					Matrix:	SOLID
And	PARAMETER	SPIKE AMOUNT	MEASURI AMOUNT	ED UNITS	PERCNT RECVRY	метног	o	PREPARATION- ANALYSIS DATE	WORK ORDER #
l i d i	LCS Lot-Samp			014 Prep Bate					
ī.	Arsenic	2.0	2.1	mg/L Dilution Factor	104	SW846	6010B	10/27-10/28/09	LM9ND1AL
	Barium	2.0	2.1	mg/L Dilution Factor		SW846	6010B	10/27-10/28/09	LM9ND1AM
114	Cadmium	0.050	0.054	mg/L Dilution Factor		SW846	6010B	10/27-10/28/09	LM9ND1AN
ind	Chromium	0.20	0.20	mg/L Dilution Factor	101 : 1	SW846	6010B	10/27-10/28/09	LM9ND1AP
(India)	Lead	0.50	0.53	mg/L Dilution Factor		SW846	6010B	10/27-10/28/09	LM9ND1AQ
ŮMů	Selenium	2.0	2.3	mg/L Dilution Factor	113 : 1	SW846	6010B	10/27-10/28/09	LM9ND1AR
ll-mi	Silver	0.050	0.061	mg/L Dilution Factor		SW846	6010B	10/27-10/28/09	LM9ND1AT
	Mercury	0.0050	0.0053	mg/L Dilution Factor		SW846	7470A	10/27/09	LM9ND1AK
	LCS Lot-Samp	le#: A9J	270000-0	019 Prep Bate	ch #:	93000	019		
Ьd	Arsenic	2.0	2.2	mg/L Dilution Factor		SW846	6010B	10/27-10/28/09	LNAVM1AP
HÅ	Barium	2.0	2.1	mg/L Dilution Factor:		SW846	6010B .	10/27-10/28/09	LNAVM1AQ
•	Cadmium	0.050	0.054	mg/L Dilution Factor		SW846	6010B	10/27-10/28/09	LNAVM1AR
i uli	Chromium	0.20	0.21	mg/L Dilution Factor	103 : 1	SW846	6010B	10/27-10/28/09	LNAVM1AT
	Lead	0.50	0.54	mg/L Dilution Factor:		SW846	6010B	10/27-10/28/09	LNAVM1AU

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot	: A9J	260134		_		1	Matrix:	SOLID
PARAMETER Selenium	SPIKE AMOUNT 2.0	MEASURED AMOUNT 2.3	UNITS mg/L ilution Factor	PERCNT RECVRY 113	METHOI SW846		PREPARATION- ANALYSIS DATE 10/27-10/28/09	WORK ORDER # LNAVM1AV
Silver	0.050	0.059	mg/L ilution Factor	118 : 1	SW846	6010B	10/27-10/28/09	LNAVM1AW
Mercury	0.0050	0.0058	mg/L ilution Factor	116 : 1	SW846	7470A	10/27/09	LNAVM1AX
NOTE (S):								

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
			. =====			
-		0137-001 Prep B				
Leach Date.			Batch #.	.: P929802		
Arsenic	104	(50 - 150)	(0.00)	SW846 6010B	10/27-10/28/09	
	102	(50 - 150) 2.0		SW846 6010B	10/27-10/28/09	TW8MA1
		Dilution Fac	tor: 5			
Barium	104	(50 - 150)		SW846 6010B	10/27-10/28/09	LM8WV1
	103	(50 - 150) 1.3	(0-20)	SW846 6010B	10/27-10/28/09	
		Dilution Fac	tor: 5			
Cadmium	108	(50 - 150)		SW846 6010B	10/27-10/28/09	LM8WV1
	106	(50 - 150) 2.2	(0-20)		10/27-10/28/09	
		Dilution Fac			20, 20, 20, 00	
Chromium	101	(50 - 150)		SW846 6010B	10/27-10/28/09	LM8WV1
	99	(50 - 150) 1.8	(0-20)	SW846 6010B	10/27-10/28/09	LM8WV1
		Dilution Fac				
Lead	107	(50 - 150)		SW846 6010B	10/27-10/28/09	LM8WV1
	104	(50 - 150) 2.0	(0-20)		10/27-10/28/09	
		Dilution Fac				
Selenium	111	(50 - 150)		SW846 6010B	10/27-10/28/09	T M Q GT / 1 :
Serentam	109	(50 - 150) 1.6	(0-20)	SW846 6010B	10/27-10/28/09	
	109	Dilution Fac		54040 00105	10/2/ 10/20/03	III-10WVII
Silver	111	(50 - 150)		SW846 6010B	10/27-10/28/09	T.M8WV1
	108	(50 - 150) 2.0	(0-20)		10/27-10/28/09	
		Dilution Fac			,,,	
Mercury	109	(50 - 150)		SW846 7470A	10/27/09	LM8WV1
-	117	(50 - 150) 6.9	(0-20)	SW846 7470A	10/27/09	LM8WV1

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot 1...: A9J260134 Matrix..... SOLID Date Sampled...: 10/23/09 11:35 Date Received..: 10/24/09 SAMPLE SPIKE **MEASRD** PERCNT PREPARATION-RECVRY RPD METHOD ANALYSIS DATE PARAMETER AMOUNT AMT AMOUNT UNITS ORDER # MS Lot-Sample #: A9J240137-001 Prep Batch #...: 9299014 Leach Date....: 10/25/09 Leach Batch #..: P929802 Arsenic 5.0 5.2 104 SW846 6010B 10/27-10/28/09 LM8WV mg/L 102 2.0 SW846 6010B 10/27-10/28/09 LM8WV 5.0 5.1 mg/L Dilution Factor: 5 Barium 50.0 52.9 mg/L 104 SW846 6010B 10/27-10/28/09 LM8WVI 50.0 52.2 SW846 6010B 10/27-10/28/09 LM8WV1A 103 1.3 mg/L Dilution Factor: 5 Cadmium SW846 6010B 10/27-10/28/09 LM8WV 1.0 1.1 mg/L 108 SW846 6010B 10/27-10/28/09 LM8WV 1.0 1.1 mq/L 106 2.2 Dilution Factor: 5 Chromium 5.0 101 SW846 6010B 10/27-10/28/09 LM8WVI 5.0 mg/L 5.0 4.9 mg/L 99 1.8 SW846 6010B 10/27-10/28/09 LM8WV1A Dilution Factor: 5 Lead 5.4 SW846 6010B 10/27-10/28/09 LM8WV 5.0 mg/L 107 5.3 104 2.0 SW846 6010B 10/27-10/28/09 LM8WV 5.0 mq/L Dilution Factor: 5 Selenium 1.1 mg/L SW846 6010B 10/27-10/28/09 LM8WV 1.0 111 10/27-10/28/09 LM8WV1A 1.1 mg/L 109 1.6 SW846 6010B 1.0

Dilution Factor: 5

mg/L

mg/L
Dilution Factor: 5

mg/L

mg/L

Dilution Factor: 1

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

0.0050

0.0050

1.0

1.0

1.1

1.1

0.0055

0.0059

Silver

Mercury

111 108

109

117

2.0

SW846 6010B

SW846 6010B

SW846 7470A 6.9 SW846 7470A 10/27-10/28/09 LM8WV

10/27-10/28/09 LM8WV

LM8WV1A

10/27/09

10/27/09

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot Date Sample		0134 0/09 11:30 Date F	Received.	.: 10/22/09	Matrix	: SOLID
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Samp	le #: A9J22	:0199-002 Prep E	Batch #	.: 9300019		
_		6/09 Leach				
Arsenic	105	(50 - 150)		SW846 6010B	10/27-10/28/09	LM3TR1A
	105	(50 - 150) 0.88	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1A
		Dilution Fac				
Barium	102	(50 - 150)		SW846 6010B	10/27-10/28/09	LM3TR1A
	102	(50 - 150) 0.80	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1A
		Dilution Fac	tor: 5			
Cadmium	104	(50 - 150)		SW846 6010B	10/27-10/28/09	LM3TR1A
	104	(50 - 150) 0.42	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1A
		Dilution Fac	tor: 5			
Chromium	101	(50 - 150)		SW846 6010B	10/27-10/28/09	
	100	(50 - 150) 0.38 Dilution Fac		SW846 6010B	10/27-10/28/09	LM3TR1A
Lead	108	(50 - 150)		SW846 6010B	10/27-10/28/09	LM3TR1A
	108	(50 - 150) 0.49	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1A
		Dilution Fac	tor: 5			
Selenium	106	(50 - 150)		SW846 6010B	10/27-10/28/09	
	105	(50 - 150) 0.92 Dilution Fac		SW846 6010B	10/27-10/28/09	LM3TR1A
Silver	104	(50 - 150)		SW846 6010B	10/27-10/28/09	LM3TR1A
	103	(50 - 150) 0.75 Dilution Fac		SW846 6010B	10/27-10/28/09	LM3TR1A
Mercury	114	(50 - 150)		SW846 7470A	10/27/09	LM3TR1C
<u> </u>	113	(50 - 150) 1.1			10/27/09	LM3TR1C
		Dilution Fac	tor: 1			

NOTE (S)

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lo Date Samp				Date Receive	ed: 1	L0/22/()9	Matri	ix SOL	ID .
PARAMETER	SAMPLE R AMOUNT		MEASRD AMOUNT	UNITS	PERCNI RECVRY	r Y RPD	<u>METHOI</u>)	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sa Leach Dat Arsenic	_			Prep Batch : Leach Batch						1
	ND ND	5.0 5.0	5.3 5.2	mg/L mg/L tion Factor: 5	105 105	0.88	SW846 SW846	6010B 6010B	10/27-10/28/09 10/27-10/28/09	
			<i>D</i> ±±0.	Tion ractor.						
	0.37 0.37	50.0 50.0	51.5 51.1 Dilut	mg/L mg/L tion Factor: 5	102 102	0.80	SW846 SW846	6010B 6010B	10/27-10/28/09 10/27-10/28/09	
Cadmium										
	0.0011	1.0	1.0 1.0 Dilut	mg/L mg/L tion Factor: 5	104 104	0.42	SW846 SW846	6010B 6010B	10/27-10/28/09 10/27-10/28/09	Year of the second seco
Chromium										
	ND ND	5.0 5.0	5.0 5.0 Dilut	mg/L mg/L tion Factor: 5	101 100	0.38	SW846 SW846		10/27-10/28/09 10/27-10/28/09	
Lead										
	0.0022 0.0022	5.0 5.0	5.4 5.4	mg/L mg/L tion Factor: 5	108 108	0.49	SW846 SW846		10/27-10/28/09 10/27-10/28/09	
Selenium										
		1.0	1.1 1.1 Dilut	mg/L mg/L tion Factor: 5	106 105	0.92	SW846 SW846		10/27-10/28/09 10/27-10/28/09	
Silver										-
		1.0	1.0 1.0 Dilut	mg/L mg/L tion Factor: 5	104 103		SW846 SW846		10/27-10/28/09 10/27-10/28/09	3
		0.0050	0.0057	_	114		SW846		10/27/09	LM3TR
	ND	0.0050	0.0056 Dilut	mg/L tion Factor: 1	113	1.1	SW846	7470A	10/27/09	LM3TR1C

NOTE (S):

Chain of Custody Record

TestAmerica Laboratory location:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact		tory program:)W	1				RCRA												STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,	merica Laboratorie	s, In
Company Name:	Client Project !		VAC			Site (Contac	t: ,						Lab	Conta	et:						Co	C No:	
Address:	STEVE VOSS						Telephone:							Tele	Telephone:						of COC	5		
City/State/Zip: ST. PAVL, MV 55112	Email: SVOSS@craworld.com						Authors by respond time							-	Analyses					in the Control of the				
Phone: 651-639-0913							TATif	different	t from be	ceks			Service Access		10	1								
Jefferson Yard	Method of Ship	oment/Carrier:	over	nia	ht					2 weeks				8,	3 46	707	68 11							
054633	Shipping/Track	king No:								2 days 1 day				9	0	00	Re							
PO#	\$ 80	THE S		Mag					0 & P	T				3	40	2	9	The same of the sa			The state of the s			
Sample Identification	Sample Date	Sample Time	Alr	Sediment	Solid Other:	H2S04	HIN03	HCI	NaOH	ZnAc/ NaOH	Unpres	oder:		707	5	721	76						Sample Specific Note Special Instructions	
5-091023-PS-SB11-B1	10/23/0	91400		K							1		G	X	X	X								
TSCA SOIL	1	1135		a							K						X							
TS CA STABILIZED		1135	8	1	12						K			1			X							
NON-TSCA STABILIZED		1415		X							of		- 17	-			X							
W-091023-PS- RB1	V	1130	!	(180		×				X		1	X	X									
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				+		+	1				-		+						-			+		-
		8.3	H	H							+		+	+	121							+		100
Possible Hazard Identification Non-Hazard Flammable Skin	Irritant [Poison B	Ш		Unknown		mple I			ee may		essed if				d longe			h)		Mon	iths		
Special Instructions/QC Requirements & Comments:		77																						
Relinquished by:	Company:	'RA		ate/Time			1 .;		Recei	ved by:				1				Compan	ny:			Dat	e/Time:	9.1
Relinquished by:	Company: Date/Time:			Received by:						Company:				Date	e/Time:									
Relinquished by:	Company:		D	ate/Time	e:	32			Recei	ved in I	abora	tory by	D	5				Compan		me	ina		e/Time: 10 : 0	Go

	Descipt Form/Narrative Lot Number	AATAK	157910/2
TestAmerica Cooler	Kecaibi Louinidanana		0134
North Canton Facilit	Project Trollanson and By:		
Client CRA	Project Via Hansey Vana	(Signature)
Cooler Received on	Opened on 10-24-09 FAS Stetson Client Drop Off TestAmerica Courier	Other	
	1.15 Million Coolers 1 FORD BUX 1 CHOR SOCIET		
TestAmerica Cooler#L	the outside of the cooler(s)? Yes \(\sqrt{No} \) Intact? Yes	No NA	
1. Were custody seals of	Quantity Unsalvageable		'
If YES, Quantity	the outside of cooler(s) signed and dated? Yes	No □ NA	\
Were custody seals of	If the outside of cooler(3) signed and delete	□ No 🛛	
Were custody seals of	in the potrie(s):	_	
If YES, are there any	exceptions?Yes	✓ No □	
2. Shippers' packing slip	attached to the cooler(s)? company the sample(s)? Yes 🛛 No 🗌 Relinquish	ed by client? Ye	s 🛭 No 🗌
3. Did custody papers ac	ers signed in the appropriate place? Yes	⊠ No □	
4. Were the custody pap	: Bubble Wrap 🛛 Foam 🗌 None 🗀 Other		
5. Packing material used	oon receipt 5.4 °C See back of form for multiple coo	iers/temps	
6. Cooler temperature up METHOD: IF	R Other	,	
COOLANT: Wet lo		•	
	n good condition (Unbroken)?	⊠ No □	
7. Diù dii Dullico di live ii	I GOOD CONDITION (CHECKEN)	☑ No □	10-24-09
	DC 1000Hothod With the man.	☑ No □ NA	10-24-07
40 More correct bottle(s)	used for the test(s) indicated?	⊠ No □	<i>,</i> —
11. Were air bubbles >6 r	about the trookly management		
12 Sufficient quantity rec	eived to perform indicated analyses?	= =	_
12. Sumoon quantity rec	ent in the cooler(s)? Yes \(\square\) No \(\sqrt{N}\) Were VOAs on the COO		∞
Contacted PM	Datebyvia Verbal	Voice Mail	
0			
44 CHAIN OF CUSTOD	Y and the second of the second		والمنظون الكسائر المسير
The following discrepance			
The fancting discrepance			
		 	
			
15. SAMPLE CONDITIO		d b _ d	
Sample(s)	were received after the recommende		
Sample(s)	ببريد بالمراب والمراب التواقي في المرابع المرابع المرابع المرابع المرابع والمرابع	ived in a broker	
Sample(s) 16. SAMPLE PRESERVA	were received with bubble >6 m	in in diameter.	(NOUTY PM)
			-1-
Sample(s)		eserved in Samp	
	mended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfuric Acid Lot# DH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Aci		
	at time was preservative added to sample(s)?	State Lot# 100 100	,-
Client ID	рН	Date	Initials
4)-091023-25- RRI		10-24-09	
W-C-11033-23 Kh		10.24-04	1M
		 	
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	Approximation of the control of the		
	TestAmerica Cooler Receipt Form/Narrat North Canton Facility	194g	
Client ID	Но	Date	<u>Initials</u>
			·
Cooler	Temp °C	Method	Cociant
Discrepancies Cont'd			·
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END OF REPORT



ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Associates, Inc.
PROJECT NO. 54633
Jefferson Yard

SAMPLE SUMMARY

<u>WO#</u> LNPVQ

LABORATORY ID A9K030422-001 SAMPLE IDENTIFICATION

W-091102-PS-RB3

Rinsate Blank

Denise D. Heckler Project Manager 11/17/2009 11:08 AM

TESTAMERICA LABORATORIES, INC.

Denise DHeckler

Denise D. Heckler

Project Manager

denise.heckler@testamericainc.com

November 17, 2009

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720 Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com



CASE NARRATIVE

A9K030422

The following report contains the analytical results for one water sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 54633. The sample was received November 03, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson on November 17, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.9°C.

CASE NARRATIVE (continued)

POLYCHLORINATED BIPHENYLS-8082

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 9308340. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

The LCS associated with batch(es) 9308340 had recoveries above acceptance criteria, but since the samples were non-detect, no corrective action was needed.

METALS

The matrix spike/matrix spike duplicate(s) for batch(es) 9308014 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

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QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

OC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

• Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone		Lead, Calcium,	
		Magnesium, Potassium,	
		Sodium, Barium,	
		Chromium, Manganese	

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request. California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

EXECUTIVE SUMMARY - Detection Highlights

A9K030422

		REPORTING		ANALYTICAL
PARAMETER	RESULT	LIMIT	UNITS	METHOD

NO DETECTABLE PARAMETERS

ANALYTICAL METHODS SUMMARY

A9K030422

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
PCBs by SW-846 8082	SW846 8082
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A9K030422

 WO # SAMPLE# CLIENT SAMPLE ID
 SAMPLED DATE
 TIL

 LNPVQ 001 W-091102-PS-RB3
 11/02/09 14:0

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Conestoga-Rovers & Associates, Inc.

Rinsate Blank

Client Sample ID: W-091102-PS-RB3

GC Semivolatiles

Lot-Sample #...: A9K030422-001 Work Order #...: LNPVQ1AA Matrix...... WQ

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09 Prep Date.....: 11/04/09 Analysis Date..: 11/05/09

Prep Batch #...: 9308340

Dilution Factor: 1 Method.....: SW846 8082

		REPORTIN	IG .		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
Aroclor 1016	ND	1.0	ug/L	0.17	
Aroclor 1221	ND	1.0	ug/L	0.13	
Aroclor 1232	ND	1.0	ug/L	0.16	
Aroclor 1242	ND	1.0	ug/L	0.22	
Aroclor 1248	ND	1.0	ug/L	0.10	
Aroclor 1254	ND	1.0	ug/L	0.16	
Aroclor 1260	ND	1.0	ug/L	0.17	

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Tetrachloro-m-xylene	72	(27 - 130)
Decachlorobiphenyl	20	(10 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: W-091102-PS-RB3

TOTAL Metals

Lot-Sample #: A9K030422-001	Matrix ₩Q
-----------------------------	-----------

Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09

PARAMETER	RESULT	REPORTIN	G <u>UNITS</u>	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER_#
Prep Batch	9308014					-
Cadmium	ND	5.0	ug/L	SW846 6010B	11/04-11/05/09	LNPVQ1A
•		Dilution Fact	cor: 1	MDL 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	11/04-11/05/09	LNPVQ1A
		Dilution Fact	or: 1	MDL 1.9		



QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9K030422 Work Order #...: LNTEG1AA Matrix...... WATER

Analysis Date..: 11/05/09 Prep Batch #...: 9308340

Dilution Factor: 1

REPORTING

PARAMETER	RESULT	LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082
	PERCENT	RECOVER'	Y	
SURROGATE	RECOVERY	LIMITS		
Tetrachloro-m-xylene	86	(27 - 1)	30)	
Decachlorobiphenyl	66	(10 - 1)	27)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Cirent roc	‡: A9K0304	22		М	atrix WA'	TER
		REPORTI	NG		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
MB Lot-Samp	le #: A9K0400	00-014 Prep 1	Batch #:	9308014		
a 1 '	MD	5.0	ug/L	SW846 6010B	11/04-11/05/09	TNDTOIND
Cadmium	ND	3.0	ug/ L	3M040 0010B	11/04-11/03/09	LNKUZIAK
Cadmium	ND	Dilution Fac	J .	3W040 0010B	11/04-11/03/09	LNKJZIAK
Lead	ND		J .	SW846 6010B	11/04-11/05/09	

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K030422 Work Order #...: LNTEG1AC-LCS Matrix...... WATER

LCS Lot-Sample#: A9K040000-340 LNTEG1AD-LCSD

Prep Date...: 11/04/09 **Analysis Date..:** 11/05/09

Prep Batch #...: 9308340

Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD LIMITS	METHOD
Aroclor 1016	121 a	(44 - 119)		SW846 8082
	101	(44 - 119)	18 (0-30)	SW846 8082
Aroclor 1260	70	(41 - 118)		SW846 8082
	77	(41 - 118)	9.1 (0-30)	SW846 8082
		PERCENT	RECOVERY	
SURROGATE		RECOVERY	LIMITS	
Tetrachloro-m-xylene		80	(27 - 130)	
		90	(27 - 130)	
Decachlorobiphenyl		36	(10 - 127)	
		41	(10 - 127)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K030422 Work Order #...: LNTEG1AC-LCS Matrix......: WATER

LCS Lot-Sample#: A9K040000-340 LNTEG1AD-LCSD

Prep Date....: 11/04/09 Analysis Date..: 11/05/09

Prep Batch #...: 9308340

Dilution Factor: 2

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	10	12 a	ug/L	121		SW846 8082
	10	10	ug/L	101	18	SW846 8082
Aroclor 1260	10	7.0	ug/L	70		SW846 8082
	10	7.7	ug/L	77	9.1	SW846 8082
			PERCENT	RECOVERY		
SURROGATE			RECOVERY	LIMITS		
Tetrachloro-m-xylene			80	(27 - 130)}	
			90	(27 - 130)	
Decachlorobiphenyl			36	(10 - 127	')	
			41	(10 ~ 127	'}	

NOTE(S):

14

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #:	A9K030422			Matrix	: WATER
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: Cadmium	A9K040000- 95	_	sw846 6010B	11/04-11/05/09	LNRJ21AX
Lead	98	(80 - 120) Dilution Factor	SW846 6010B	11/04-11/05/09	LNRJ21A0
NOTE (S):					

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot	: A91	K030422					WATER	
PARAMETER	SFIKE AMOUNT	MEASURE AMOUNT	D UNITS	PERCNT RECVRY	METHO	D	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sam	pl e#: A9H	<040000-0	14 Prep Bat	ch #	: 93080	014		
Cadmium	50.0	48.0	ug/L	95	SW846	6010B	11/04-11/05/09	LNRJ21AX
			Dilution Facto	r: 1				
Lead	500	490	ug/L	98	SW846	6010B	11/04-11/05/09	LNRJ21A0
			Dilution Facto	r: 1				

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #: A9K030422 Date Sampled: 10/29/09 13:00 Date Received: 11/03/09 Matrix: WATER													
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS RPD	RPD LIMITS	METHOD	PREPARATION- WORK ANALYSIS DATE ORDER #								
MS Lot-Sample #: A9K030541-001 Prep Batch #: 9308014													
Cadmium	120	(75 - 125)		SW846 6010B	. 11/04-11/05/09 LNQVD1A4								
	72 N	(75 - 125) 13	(0-20)	SW846 6010B	11/04-11/05/09 LNQVD1A5								
		Dilution Fac	tor: 20										
Lead	100	(75 - 125)		SW846 6010B	11/04-11/05/09 LNQVD1A7								
	80	(75 - 125) 14	(0-20)	SW846 6010B	11/04-11/05/09 LNQVD1A8								
		Dilution Fac	tor: 20										
NOTE (S):													

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9K030422 Matrix.....: WATER

Date Sampled...: 10/29/09 13:00 Date Received..: 11/03/09

PARAMET	SAMPLE TER AMOUNT		MEASRD AMOUNT	UNITS	PERCN'I		METHO)	PREPARATION- ANALYSIS DATE	WORK ORDER #
	Sample #:	A9K0305	41-001	Prep Batch	#: 9	30801	4			
Cadmium										
	140	50.0	200	ug/L	120		SW846	601CB	11/04-11/05/09	LNQVD1A4
	140	50.0	170 N	ug/L	72	13	SW846	6010B	11/04-11/05/09	LNQVD1A5
			Dilu	tion Factor: 20	0					
Lead										
	290	500	790	ug/L	100		SW846	6010B	11/04-11/05/09	LNQVD1A7
	290	500	690	ug/L	80	14	SW846	6010B	11/04-11/05/09	LNQVD1A8
			Dilu	tion Factor: 20	0					

NOTE (S):

(1)

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

	CHAIN OF COCTO			
	SHIPPED TO (Laboratory	Name):	REFERENCE NUMBER	₹:
CONESTOGA-ROVERS & ASSOCIATES Gant Industry 651-639-0913	Test Am		054633	
SAMPLER'S PRINTE NAMI	E TETUT STITING	No. of Containers		REMARKS
SEQ. No. DATE TIME SAMPLE No.	SAMPLE TYPE	25 4 7/1		
11/2/09 1400 W-091102-PS-R	B3 Water	2 XX		
			 	
				/
		1 1 1		<u>/</u>
			+++++	
			 	
			 	
				, CO. CO. CO. CO. CO. CO. CO. CO. CO. CO.
TOTAL NUMBER OF CONTAIL	NERS .	2 HEA	ALTH/CHEMICAL HAZARDS	3
RELINQUISHED BY:	DATE: ///2/69 F	RECEIVED BY:		DATE:
	TIME: //w	D		TIME:
RELINQUISHED BY:	DATE: F	RECEIVED BY:		DATE:
2	TIME:	<u> </u>		TIME:
RELINQUISHED BY:		RECEIVED BY:		DATE:
3		3		TIME:
METHOD OF SHIPMENT: FPO EX D	rev night v	WAY BILL No.		
White —Fully Executed Copy	SAMPLE TEAM:	RECEIXED F	OR LABORATORY BY:	
Yellow —Receiving Laboratory Copy	SHYLY	Ch	ユン <u>ノー</u> 1	Nº CRA 22179
Pink —Shipper Copy Goldenrod —Sampler Copy		DATE: _///3/	7 TIME: 4:10	

1001 (D) APR 28/97(NF) REV. 0 (F-15)

	er Receipt Form/Narrative	Lot Number: <u>A 9 K 03 0 42 2</u>
North Canton Facil		
ClientCRA	Project <u>54633</u>	By: Chui dings
Cooler Received on		
Fedex IX UPS [] DHI	FAS Stetson Client Drop Off To	estAmenca Couner Other
1 estAmerica Cooler#	<u>C328</u> Multiple Coolers ☐ Foam Box	Client Cooler Other
If YES, Quantity	on the outside of the cooler(s)? Yes 💢 No 🗔 Quantity Unsalvageable	-
_	on the outside of cooler(s) signed and dated?	Yes 🔯 No 🗌 NA 🗍
Were custody seals	on the bottle(s)?	Yes □ No 🏻
If YES, are there any		
	p attached to the cooler(s)?	Yes ☒ No ☐
	accompany the sample(s)? Yes 🗓 No 🗌	
	pers signed in the appropriate place?	Yes 🔼 No 🗌
	ed: Bubble Wrap 🔯 Foam 🗌 None 🗌	
	upon receipt 3.9 °C See back of for	m for multiple coolers/temps
	IR A Other D	□ None □
	-	□ None □
	in good condition (Unbroken)?	Yes 🖸 No 🗍
	s be reconciled with the COC?	Yes 🖸 No 🗌
	ne correct pH upon receipt?	Yes ☑ No ☐ NA ☐
	s) used for the test(s) indicated?	Yes ☑ No □
11. Were air bubbles >6		Yes 🔲 No 🗀 NA 🖸
	ceived to perform indicated analyses?	Yes No 🗌
	sent in the cooler(s)? Yes 🗌 No 🛭 Were	
	Date by	via Verbal 🔝 Voice Mail 🔛 Other 🗀
Concerning		
	Y	
The following discrepand	iles occurred:	
	***	· · · · · · · · · · · · · · · · · · ·
15. SAMPLE CONDITIC	DN .	
Sample(s)		the recommended holding time had expired
Sample(s)		were received in a broken container.
Sample(s)	were received	with bubble >6 mm in diameter. (Notify PM)
16. SAMPLE PRESERV		
Sample(s)		were further preserved in Sample
	nmended pH level(s). Nitric Acid Lot# 031909-HNO	
Hydroxide Lot# 100108 -Ns	OH; Hydrochloric Acid Lot# 092006-HCI; Sodium Hyd	
<u> </u>	at time was preservative added to sample(s)? _	
Client ID	<u> </u>	<u>Date</u> <u>Initials</u>
RB3	42	11/3/09 CSL
		
		• • • • • • • • • • • • • • • • • • •

Pats Initials Pats Initials Tamp. °C Method Coolant	With Causon Laci		My market	My Amaria.
Temp. °C Method Coolan	Client ID	Ha	Date	Initials
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	Cooler#	Temp. °C	Method	Coolen
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	CROCORDADE CONTO			
	Repaire des contes			
	Separation Confd			
	gepanaes Contd			
	Separate Conta			
	STOPPING SORIS			
	Stepan on Confd			
	Sepancias Contd			
	Stopsinists Contid			
	STOP ARTICLE CONTS			
	SEPERAL PORTS			
	SEPARAS PORKS			
	SOCIAL PORMS			



END OF REPORT

ATTACHMENT E

COPIES OF WASTE MANIFESTS

Approval: J094128WDI
Receipt Date: 10/01/2009 .. 11/30/2009
Receipt Status: All
Trans Mode (Inbound/Outbound): Both
Bulk Mode (Bulk/Non-Bulk): Both

Receipt List

Wayne Disposal, Inc.

1 Wayne Disposal, Inc.

Manifest/BOL / Custom	er	Generator			Approval / Product	Waste				Fpr. Status /	
Receipt ID Commingled			Was	ite Stream	TSDF Approval	Code	Bill Unit	Quantity	Rec.Status	Outbound	Date
J1179345-1 001893721JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	25.41	Accepted	Accepted	11/2/2009
179346-1 001873720JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	25.01	Accepted	Accepted	11/2/2009
√1179348-1 001893719JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	26.62	Accepted	Accepted	11/2/2009
√1179350-1 001893722JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS		Accepted	Accepted	11/2/2009
/j179352-1 001893724JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS		Accepted	Accepted	11/2/2009
/1179353-1 001893723JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS		Accepted	Accepted	11/2/2009
1/179359-1 001893726JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS		Accepted	Accepted	11/3/2009
√1179360-1 001893725JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS		Accepted	Accepted	11/3/2009
/179361-1 001893727JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	24.04	Accepted	Accepted	11/3/2009
J 179398-1 001893728JJK 999 99	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS		Accepted	Accepted	11/3/2009
J1179399-1 001893729JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS		Accepted	Accepted	11/3/2009
J 1179408-1 001893730JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	24.44	Accepted	Accepted	11/4/2009
J1179430-1 001893731JJK 99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS		Accepted	Accepted	11/4/2009

Total quantity for bill unit TONS:

320.13

Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES 2701 NORTH I-94 SERVICE DRIVE

YPSILANTI, MI 48198

Receipt ID: 1179345 EQ Account #: 99999

Manifest / BOL: 001893721JJK Transporter: BEELMAN2

Time Out: 3:56 PM

25.410 TONS

25.410 TONS

Date: 11/02/2009 Time in: 2:58 PM

Qty. Unit Line Description Generator

J094128WDI - TSCA Soil

Hazardous Surcharge Ton

ILR000048637 CITY OF ELGIN

Gross: 79,680 Tare: 28,860

Net: 50,820

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9165

Pie	ase print or ly			(12-pitch) typewriter.)							m Approved.	OMB No. 2	2050-0031
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}}	5. Generator	Name and Made	N Address				tor's Site Address 70	adforming	on mailing address	8			
$\ \ $		<i>- 1</i> 77)	· C4	g474313	, 1			60120				
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	8. Designate	Facility Name as	d Site Address DE	gosm 7 94 Sen	FUL Si	TEZL	undfill		U.S. EPA ID N				
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$\ $	I costily t		mization statement ide	ment conform to the term refined in 40 CFR 282.27				d quantity ga	nemior) is true.		Mon	. 0	Year
	Mark	Wilson	As Agent	for City	felsin	~7M	angle	1.h	<u> </u>		1/1		
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TRANSPOR	Transporter 2	Printer/Typed Nan	ne			Signature					Mont I	th Dey	Year
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2	Facility's Phon	e: of Aremate Facili	ly (or Generaliza)								Mon	th Day	Year
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DESIGNATED	19. Hazarda a	Waste Report Ma	negament Method Cod	es (i.e., codes for hezan	dous waste treatmen	L disposal, and rec 3.	ycling systems)		4.				
		172			A solution		 						
	20. Designated Printed/Typed		Operator: Certification	of receipt of hezardous	1	Signature	as noted in hem	154	S	<i></i>	Mort	h Dany	Yeer
↓ EDA	Form \$700.2	2 /Day 2 051	pu, o	arna	chi_		12-2	da			11	12	09
EPA	Form 8700-2	2 (Rev. 3-05)	revious editions are	obeciete.		DECIO	MATER EA		-	-			

FOR MANIFESTED PCB WASTE

3

This certificate is to verify the wastes identified as
This certificate is to verify the wastes identified as
and specified on Manifest # 001893721TJK, Line Item has been landfilled on
11/2, 200 f in accordance with all local, state and federal regulations by:
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)
1'AX. 1-000-N WALLAX (392-3329)
nder civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 2013), I certify that the information contained in or accompanying this document is true, accurate and complete. As the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official tring supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information true accurate and complete.
Authorized Signature:



Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES 2701 NORTH I-94 SERVICE DRIVE YPSILANTI, MI 48198

Receipt ID: 1179346

EQ Account #: 99999

Manifest / BOL: 001873720JJK

Transporter: BEELMAN2

Date: 11/02/2009

Time In: 3:15 PM Time Out: 4:01 PM

Line	Descript	ion					Qty. Unit
	Generato	or					
1 - A	J094128\	WDI - TSCA	Soil				25.010 TONS
	Hazardou	is Surcharge	Ton				25.010 TONS
	ILR00004	18637 CITY	OF ELGIN				
	Gross: 78,080 Tare: 28,060 Net: 50,02					50,020	

Piez	ne print or N	oe. (Form desig	ned for use on alite (12-pite	h) typewriter.)						n Approved.	OMB No. 20	250-004
T	UNIFORM		1. Generator ID Number TLR 000		2. Page 1 of 3. E	630 3	27 9	A Northeat	1.89	372	n JJ	K
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	7. Transport	2 Company Nam	2					U.S. EPAID N	tumber			
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		WAY	SON ITH	Service !	Drive			m	INA	48 O	30 b	32]
	Facility's Phy	bell	eville Mi	48111 8	00 592	5489		1			,,,	، د -
	94. 96	U.S. DOT Descript	ion (including Proper Shipping I	lame, Hazard Class, ID Numbe	ex.	10 Conta	_	11. Total	12. Unit	13. 7	Maste Codes	•
	HAM BING	Packing Group (If	19, PGI	winated to	Dheryls.	No.	Туре	Quantity	Wt.Nol.	DAB.		
ğ	X C	5 PC (1)	9 241	1	1 1 . 1	1	DT	22,500	Kq	COL		
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	50	9412	8WPI/T	SCA SOIL	1 Stora	ar Di	MALI.	pule.		2-07	_	•
		•1	s and Additional Information 8WPI/T		Unt	ave C	onta	iner-	ID.			
	15. GENE	ATOR'SOFFER	OR'S CERTIFICATION: I hereb	y deciare that the contents of t	his consignment are fu	ly and accurately di	escribed abov	e by the proper sh	ipping nam	e, and are clas	sified, packet	
	Exporte	r. I certify that the	contents of the consignment or imization statement identified i	nform to the terms of the stac	hed EPÅ Acknowledgn	ent of Consent.	•		.,			,
	Generator's/	Officer's Printed/T		Ab 0 1 /	Signature	14	11.			Mari	,	Year
7	Mark 16. Internation	NR SON A	s Agent for	City of Elsin		MA IN	Me			10	12	109
Ξ		egnature (for expo			Expert from U.S.	Port of ea Date leav						
_		er Acknowledgmen Printed/Typed No	nt of Receipt of Materiels		Signyture					Mont	n Day	Year
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FAC	Facility's Pho							1				
	18c. Signatur	o of Alternate Facil	ity (or Generator)					~		Mon	th Cay	Year
DESIGNATED	19. Haradou	s Waste Report Mi	inagement Method Codes (i.e.,	codes for hezartious waste tre	etment, disposal, and	ecycling systems)						
삐	ni	32	2.		3	7		V				
	20 04 54	d Jephy Duner p	r Operator Certification of rece	gt of hazardous maternals cove		opt as noted in Her	180					
	Printed 14			7	- There			7		.77	177	19
PA	Form 8700	22 (Rd 3-05) F	Previous editions are obsole	le.	DES	ONATED FA	CILITY:	TO DESTIN	ATION	STATE (F REQU	IRED'
		1 •	,		\>						~ 0	

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as
and specified on Manifest # 001893720UK, Line Item / has been landfilled on
, 200 1 in accordance with all local, state and federal regualtions by:
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)
Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official
having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.



Authorized Signature:

Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE

YPSILANTI, MI 48198

Receipt ID: 1179348 EQ Account #: 99999

Manifest / BOL: 001893719JJK

Transporter: BEELMAN2
Date: 11/02/2009

Time In: 3:23 PM
Time Out: 4:41 PM

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	26.620 TONS
	Hazardous Surcharge Ton	26.620 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 81,420 Tare: 28,180 Net: 53,240	

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UNIFORM HAZARDOUS UNIFORM HAZARDOUS UNIFORM HAZARDOUS UNIFORM HAZARDOUS L. Generator ID Number TLL ROCS	2. Page 1 of 3. En	ergency Response Phone 3C 3Z7 968	I Hanifost Tracking N	3719 JJK		
5. Generator's Name and Names Address EGIN	- Willow Coyley Gorner	ntor's Sile Address (if different the	in mailing address)			
S. Generator's Name and Natures FERIN & William Colly 20 Jefferson Art (Construction Phone: all 1931 5655						
Generator's Phanes: Q Q 7 7 3 5 5 5 5 6 1 Transporter Company Name	<u> </u>		U.S. EPA ID NUMBER	135236		
7. Transporter 2 Company Name			U.S. EPA ID Number	131230		
B. Designated Facility Name and Site Address	THE STEP LA	ofu,	U.S. EPA ID Number			
49350 N-1945 Feelly's Prone: Belleville MI 41	Az, Inc Sitez Landervice Orine. Bill 800 592-54	89	MIDO	48 090 633		
ga 9b. U.S. DCT Osscription (Including Proper Shipping Nam HM and Packing (Group (If any))	e, Hazard Ciese. 4D Number,	10. Containers No. Type	11. Total 12. Unit Ouentity Wt.No.	13. Waste Codes		
X 7, PGI	ted beplungts, solld,	I DT	22,500 Kg	POI		
7, PGI			 			
				 		
3.						
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14. Spacel Handling instructions and Additional Information			- 49			
J094128WDI/TSCA 3	soil/Strage Sty	JO94128WD1/TSCA SOIL/Strave Start Date 11-20				
Unique Container ID: 1						
	Unique Corri	riner ID.		·		
15 GENERATOR'S/OFFEROR'S CERTIFICATION: I havely de marked and labeled/placanted, and are in all respects in propi Exporter. I certify that the contents of this consignment content	clase that the contents of this consignment are fully or condition for transport according to applicable in	and accurately described above emational and national government	by the proper shipping nam			
15 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby do nurted and isbelot/piccarded, and are in all respects in propi Exporter. I certify that the contents of this consignment confor I certify that the weste minimization statement identified in 40 Generator's/Offerory Printed/Typgd Name	clare that the contents of this consignment are fully ar condition for transport according to applicable in m to the terms of the attached EPA Activoledome CFR 252.27(a) (if I am a large quantity generator). Signature,	and accurately described above ternational and national government of Consent.	by the proper shipping name intel regulations. If expert of			
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FOR MANIFESTED PCB WASTE

1893719JJK

This certificate is to verify the wastes identified as	PCB 2017
and specified on Manifest # 061893719	ププパ , Line Item 0/ has been landfilled on
11/2, 200 9 in accordance w	ith all local, state and federal regualtions by:
•	

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature:



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES 2701 NORTH I-34 SERVICE DRIVE YPSILANTI, MI 48198

Receipt ID: 1179350

EQ Account #: 99999

Manifest / BOL: 001893722JJK

Transporter: BEELMAN2

Date: 11/02/2009 Time In: 3:57 PM

Time Out: 4:36 PM

		HITH OUL 4.30 FM
Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	26.160 TONS
	Hazardous Surcharge Ton ILR000048637 CITY OF ELGIN	26.160 TONS
	Gross: 80,600 Tare: 28,280 Net: 52,320	

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Ple	UNIFO	200 HA	ZARDOUS	1. Generator ID			2. Page 1 of 3. Em	ngercy Responent	Phone 2	4. Manifest	racidne N	mape.			
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ļ	6. Transp	orter 1	Company Nag	man				U.S. EPA ID Number 1 L. ROOO 13.5 236							
	7. Trans	orter 2	Company Nan					· · · · · · · · · · · · · · · · · · ·		U.S. EPA O N	Veriber				
	8. Design	neted F	cility Name a	d São Address	7	ca Tak	SOE 2	TE 2 ANI DELLE U.S. EPA ID Number							
	facility's	Phone	Be	350 A	MI	18111	500 E 2 800 E 92 S	5489		m	ID	048	0904	633 	
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	20. Danig			Operator: Certifi	ation of receipt of	hezardous mytentils cov	ered by the manifest exce	pl as cated in Horn	160						
I (2mid	Jan	nach	Signature	7-5	A-3			- 17		104	
PA	Form 870	X)-22 (Rev. 3-05) F	revious editions			DESIG	ALATER FA	CH ITV	O DESTIN	47101	OTATE A		******	

This certificate is to verify the wastes identified as	PCB 2017
and specified on Manifest # 06 18 93 72 2	JJ1, Line Item has been landfilled on
$\frac{11/2}{2}$, 200 $\frac{9}{2}$ in accordance with	all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 100) and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature:



Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES 2701 NORTH I-94 SERVICE DRIVE

YPSILANTI, MI 48198

Receipt ID: 1179352

EQ Account #: 99999

25.800 TONS

25.800 TONS

Manifest / BOL: 001893724JJK

Transporter: BEELMAN2 Date: 11/02/2009

Time In: 4:39 PM Time Out: 5:22 PM

Line Description Qty. Unit Generator

1-A J094128WDI - TSCA Soil

Hazardous Surcharge Ton

ILR000048637 CITY OF ELGIN

Gross: 79,500 Tare: 27,900 **Net:** 51,600 14.4

Please point or type. (Form designed for use on elite (12-pitch) typewriter.)	tell of the second of the second of	TA Maria P	Form Approved. UMB No. 2050-00
UNIFORM HAZARDOUS 1. Generator 10 Number TLR000 048 637	Page 1 of 1. Emergency Response Ph	96x1 001	L893724 JJK
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Geography Prome: ELGTS 11 40170 84793	1565 Eli	L/L 601	70
6. Transporter it Company Name		V.3, ETA IU IM	
7. Transcorier 2 Converty North		U.S. EPA ID NU	1000 /35 23 6
		1	
8. Designated Facility Name and She Address Aspoint Three SITE 45350 N-194 Service D	EZ LAMOFILL	U.S. EPA ID NO	
45350 N-194 Service 6	mil.	m	10048090633
Facility's Phone Belleville MI 48111	800 592 5489		
98. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, 10 Number, and Packing Group (if any))	10. Containers No.		12. Unit WL/Vol. 13. Waste Codes
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14. Special Hundring Instructions and Additional Information TOPY 128WD1 /73CA \$01L/	310.59		
	Unizue	(MARKEY	-1D 66
15. GENERATOR'S OFFEROR'S CERTIFICATION: I have by declare that the contents of this cons	ignment are fully and acculiately describ	ed above by the proper ship;	oing nume, and are classified, packaged,
mented and labeled/placarded, and are in all respects in proper condition for transport according Exporter, I cardly that the contents of this consignment conform to the terms of the etlached EPA	Acknowledgment of Concent.	•	export supment and I am me Primary
1 certify that the waste minimization statement identified in 40 CFR 262-27(s) (if I am a targe qual Gegenator's/Offsepris Pirrisd/Typed Name	ntity generator) or (b) (if) em a amait qui Stoneture	antity generator) is true.	Month Day Year
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116. International Standards	et from U.S. Part of entryles	oit	
Transporter eignetium (for imports only):	Date leaving U	8.:	
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*** Discreptincy Indication Space	Residue	Partiel Reject	on Full Rejection
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162. Atematic Fecility (or Generator) Facility's Phone:		U.S. EPA ID Num	ber
Facility's Phone:		1	
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18c. Signature of Alemate Facility (or Generator) 19. Hazardous Wasta Report Management Method Codes (i.e., codes for hazardous waste treatment, c. 1.			
19. Hazardous Wasta Report Management Method Codes (i.e., codes for hazardous weste treatment, o	Seposal, and recycling systems)		
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20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by th	a marine a constant in the constant		, , , , , , , , , , , , , , , , , , , ,
Printed/Typed Name	e manifest except as noted in item 18a		
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This certificate is to verify the wastes identified as _	1017 20176
	704 JJ, Kine Item _/_ has been landfilled on
	vith all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. 1-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)

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Authorized Signature:_



Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES 2701 NORTH I-94 SERVICE DRIVE

YPSILANTI, MI 48198

Receipt ID: 1179353

25.730 TONS

25.730 TONS

EQ Account #: 99999

Manifest / BOL: 001893723JJK

Transporter: BEELMAN2
Date: 11/02/2009

Time In: 4:49 PM Time Out: 5:25 PM

Line Description Qty. Unit Generator

1 - A J094128WDI - TSCA Soil

Hazardous Surcharge Ton

ILR000048637 CITY OF ELGIN

ENCOCOTOGO ON ON ELONY

Gross: 79,040 Tare: 27,580

Net: 51,460

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$\ $	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,	2723	10. Conta	rier3	11. Total	12 Unit	13. Wa	ste Codes	
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	JO94128 WDI /73CA SOIL	Un	ique (Conto	liker	۵ĩ	,	5	_ _
	 GENERATOR SOFFEROR'S CERTIFICATION: I hereby deciere that the contents of this marked sid labeled/placerded, and are in all respects in proper condition for transport according. 								
$\ $	Exporter, it cartify that the contents of this consignment conform to the terms of the attached I certify that the waste martenization statement identified in 40 CFR 262.27(a) (if I em a large	quantity generator) o		of quantity go	nerator) is true.		12.4		
	Mark Nilson As Asent for City of Elfin 18 International Shipmans	Signature	neh	ilse	<u>~</u>		Month [//	12	109
E	Transporter signature (for exports only):	Export from U.S.	Port of er Date leav						
	17. Transporter Actinousogment of Receipt of Materials Transporter 1 Printed/Typed Name	Signature					Month	Dary	Year
TRANSPO	Mark 147 m 6 P 7172 Transporter 2 Printed Typed Name	Signature	Mars	Me	ine		Month.	Day	09
+ TRJ	18. Discrepancy	1							<u> </u>
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		N	milest Reference	Number:					
DESIGNATED FACILITY	18b. Atternate flacility (or Generator)				U.S. EPA ID No	unn beer		_	
ED FA	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)						Month	Cary	Year
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SES.	19. Hazardous Haste Report Menagement Method Codes (i.e., codes for hazardous waste treatment.)	nent, disposal, and rec	ycling systems)		4.				
	20. Designated Facility Owner or Operator: Certification of receipt of hezandous materials covered	by the manifest exce	x as noted in Item	n 18g					
	Protect/Typed Harne David Tomali	Signature	2	00			- Month	2	34
냁	Form 97/01-22 (Reny 3_05). Province and charged								

PCB 501-1
Inis certificate is to verify the wastes identified as
and specified on Manifest #
11/2, 200 9 in accordance with all local, state and federal regulations by:
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. 1-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)
Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. At to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.
Authorized Signature:



Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES 2701 NORTH I-94 SERVICE DRIVE YPSILANTI MI 48198

Receipt ID: 1179359 EQ Account #: 99999

Manifest / BOL: 001893726JJK

Transporter: BEELMAN2

Date: 11/03/2009 Time In: 7:42 AM Time Out: 8:30 AM

Line	Description	Qty. Unit
	Generator	
1 - A	J094128WDI - TSCA Soil	25.690 TONS
	Hazardous Surcharge Ton	25.690 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 79 620 Tare: 28 240 Net: 51 380	

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Ple	Nease print or type: (Form designed for use on elite (12-pitch) typewriter.) Form Approved. CMB No. 2050-0039 A UNICODE MAY A Proving 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number																
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	1	s Phone:	Bel	eville	NS PL NOT N	94	14.c Sem 1811	tw 0.	ATELLANDYIN						48090 433		
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1893726JJK

This certificate is to verify the wastes identified as	
Wayne Disposal, Inc.	٠
(EPA I.D. # MID048090633)	
49350 N. 1-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)	
Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S. 1001 and 15 U.S.C. 2615). I certify that the information contained in or accompanying this document is true, accurate and complete, to the identified section(s) of this document for which beannet personally verify truth and accuracy. I certify as the company offic having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this informati is true accurate and complete. Authorized Signature:	A: ia



Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES

2701 NORTH I-94 SERVICE DRIVE

YPSILANTI, MI 48198

Receipt ID: 1179360

EQ Account #: 99999

23.500 TONS

23.500 TONS

Manifest / BOL: 001893725JJK

Transporter: BEELMAN2

Date: 11/03/2009

Time In: 7:51 AM Time Out: 8:33 AM

Line Description Qty. Unit Generator

J094128WDI - TSCA Soil

114

1144

W)

hb.

Hazardous Surcharge Ton

ILR000048637 CITY OF ELGIN

Gross: 77,980 Tare: 30,980

Net: 47,000

(1) 306-38656
Form Approved. OMB No. 2050-0039
001893725 JJK
ersn Al
-IL 60120
EPA ID Nursber
LR 000/35 Z36
EPA ID Number
EPA ID Number

Plea	se print or type. (Form designed for use on effite (12-pitch) typewriter.)	Page 1 of 3. Emergency Response Phone	4. Munifest Tracking Number							
1	UNIFORM HAZARDOUS 1. Generator 10 Number 12 WASTE MANIFEST 1. COO 048 637	1 630 327 968	001893725 JJK							
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	Flow 11 (1/2) QUISA	usus E	JE-11 60120							
	6. Transportur Company Name		US EPAID Number							
	7. Transporter 2 Company Name		U.S. EPAID Number							
$\ $	8. Designated Facility Name and Site Address	7 / an AFILI	U.S. EPA 10 Number							
	8. Designated Facility Name and Ste According to Sure Sure Sure Sure Sure Sure Sure Sure	nif	MID 048090633							
	FACILITY'S PROPER BELLEVITLE M 48111	800.592 5489								
	Se. HM 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total 12. Unit 23 Waste Codes Quantity Wt./Vol.							
8	W 50150 9 Dell	Diphenys 1 DT	22,500 Kg PM							
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\parallel	J094128WP1 / TSCA Soil	/ Strage Stal	11 Wate. 11-2-07							
\prod										
	15. GENERATOR SIOPPEROR'S CERTIFICATION: 1 hereby declare that the contents of this or marked and labelediplacarded, and are in all respects in proper condition for transport accord Exporter, 1 certify that the contents of this consignment contents to the terms of the attached it	ding to applicable international and netional governmen								
$\ $	i cartify that the weate minimization statement idealified in 40 CFR 262:27(a) (if 1 am a large of Generators/Officer's Printed/Typed Narge	quantity generator) or (b) (#1 am a smell quantity gene Signature	Month Day Year							
1	Mark Wilson As Agent for City of EC		11/2/09							
E	Import to U.S. Transporter signature (for exports celly):	Export from U.S. Port of entrylexit: Date leaving U.S.:								
	17. Transporter Astronutedoment of Receipt of Materials Transporter 1 Printed Typed Name	Signature	Month Day Year							
TRANSPO	Keinett Jonsen 306 Transporter 2 Printed Typed Name	Signature								
118	18. Discrepancy									
\prod	18a. Discrepency Indication Space	Residue	Pertial Rejection Full Rejection							
		Manifest Reference Number:								
FACILITY	18b. Alternatio Facility (or Generator)		U.S. EPA ID Number							
100	Facility's Phone: 18c. Signeture of Allemate Facility (or Generator)		Month Day Year							
DESIGNATED	19. Headindous Waste Report Management Method Codes (i.e., codes for hazardous waste treatme	ant, discossi, and recycling systems)								
ä	" N/32 2	3	4.							
	20. Sector and Pacific Conner in Operator, Certification of receipt of hezerdous materials covered to									
U		Som In	11 1709							
EPĀ	Form 8700-22 (Ref. 3-3) Previous editions are obsolete.	DESIGNATED FACILITY TO	DESTINATION STATE (IF REQUIRED							

This certificate is to verify the wastes identified as
and specified on Manifest # 0189372511K, Line Item / has been landfilled on
, 200 2 in accordance with all local, state and federal regualtions by:
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. 1-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)
Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. A to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete. Authorized Signature:



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Form# REC-FM-014-BEL

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any rigging a head used in the controlled version.

Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES 2701 NORTH I-94 SERVICE DRIVE

YPSILANTI, MI 48198

Receipt ID: 1179361

EQ Account #: 99999

24.040 TONS 24.040 TONS

Manifest / BOL: 001893727JJK

Transporter: BEELMAN2 Date: 11/03/2009

Time In: 7:52 AM Time Out: 8:36 AM

Line Description Qty. Unit

Generator

J094128WDI - TSCA Soil

Hazardous Surcharge Ton

ILR000048637 CITY OF ELGIN

Gross: 76,300 Tare: 28,220

Net: 48,080

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	Facility's Phon 15c. Signature	e: of Alternate Facili	fy (or Generator)										Mon	in Day	_
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1893727JJK

This certificate is to verify the wastes identified as
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. 1-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)
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Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES 2701 NORTH I-94 SERVICE DRIVE

Tare: 27,820

YPSILANTI, MI 48198

Gross: 77,040

Receipt ID: 1179398

EQ Account #: 99999

Manifest / BOL: 001893728JJK

Transporter: BEELMAN2

Date: 11/03/2009 Time In: 2:08 PM

Time Out: 2:46 PM

Line	Description	Qty. Unit
	Generator	
1 - A	J094128WDI - TSCA Soil	24.610 TONS
	Hazardous Surcharge Ton	24.610 TONS
	ILR000048637 CITY OF ELGIN	

Net: 49,220

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	c. Signature	of Alamata Facili	ly (or Generator)		· · · · · · · · · · · · · · · · · · ·						Mor	en Day	Year
1	Hezertou	Facility (or General Nr. of Alarmado Facili 1 Wante Report Ma 222	ragement Method	Codes (i.e., code	e for hetzerdoue week	Pariment, depose	, and recycling systems)	/	\rightarrow		<u>-</u>		
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OF DISPOSAL ERTIFICATE

Authorized Signature:

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as
and specified on Manifest # (1) 893728 UL, Line Item has been landfilled on
, 200_7 in accordance with all local, state and federal regualtions by:
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. 1-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)
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THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

澅

Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES 2701 NORTH I-94 SERVICE DRIVE YPSILANTI, MI 48198

Receipt ID: 1179399

EQ Account #: 99999

Manifest / BOL: 001893729JJK

Transporter: BEELMAN2 Date: 11/03/2009

Time In: 2:11 PM Time Out: 3:13 PM

Line Description Qty. Unit

Generator

1 - A J094128WDI - TSCA Soil 25.750 TONS Hazardous Surcharge Ton 25.750 TONS

ILR000048637 CITY OF ELGIN

Gross: 79,360 Tare: 27,860 Net: 51,500 ď

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-	Ba. Discrepa	incy Indication Space	Quently		Туре	Re	idus	Partial Rep	ection	D	Full Rejection
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This certificate is to verify the wastes identified as
and specified on Manifest # 00/89373911K, Line Item has been landfilled on
, 200 $\underline{9}$ in accordance with all local, state and federal regulations by:
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. 1-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)
Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. At to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.
Authorized Signature:



Receipt

EQIS - PMG

114

H.

TRANSPORTATION & SITE SERVICES 2701 NORTH I-94 SERVICE DRIVE

YPSILANTI, MI 48198

Receipt ID: 1179408

EQ Account #: 99999 Manifest / BOL: 001893730JJK

Transporter: BEELMAN2

Date: 11/04/2009 Time In: 7:35 AM

Time Out: 8:07 AM

Line	Description	Qty. Unit
_	Generator	
1 - A	J094128WDI - TSCA Soil	24.440 TONS
	Hazardous Surcharge Ton	24.440 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 79,560 Tare: 30,680 Net: 48,880	

17 38656

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[]	7. Transporter	2 Company Nan	NO STATE OF							U.S. EPA ID	Number			
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This certificate is to verify the wastes identified as
and specified on Manifest # 00/893730 UK, Line Item has been landfilled on
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)
Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete, to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company office having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.
Authorized Signature:
Authorized Signature:



Receipt

EQIS - PMG

TRANSPORTATION & SITE SERVICES 2701 NORTH I-94 SERVICE DRIVE

YPSILANTI, MI 48198

Receipt ID: 1179430

EQ Account #: 99999

17.370 TONS

Manifest / BOL: 001893731JJK Transporter: BEELMAN2

> Date: 11/04/2009 Time In: 3:33 PM Time Out: 4:06 PM

Line Description Qty. Unit Generator J094128WDI - TSCA Soil 17.370 TONS

Hazardous \$urcharge Ton

ILR000048637 CITY OF ELGIN

Gross: 63,840

Tare: 29,100

Net: 34,740

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This certificate is to verify the wastes identified as
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: I-800-KWALITY (592-5489) Fax: I-800-KWALFAX (592-5329)
Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.



001893731JJK

12/12/08

Authorized Signature:

ATTACHMENT F

BACKFILL CERTIFICATION AND GEOTECHNICAL INFORMATION

fay - 815-547-7766

8153325395

Quality Aggregates of Illinois, LLC

PO Box 558, Cherry Valley, IL 61016 - 815-332-5001 - Fax 815-332-5335

October 27, 2009

Gene Kus RA Seaton 2355 Newburg Rd Belvidere, IL 61008

Re: QC, Elgin, IL

Dear Gene,

This letter is written to certify that material that RA Seaton hauls from our quarry located at 2758 Wheeler Rd, Cherry Valley, IL is 100% virgin dolomitic limestone containing no chemical additives.

Our Illinois Department of Transportation producer number is 50072-04 and the CA-6 that you haul is IDOT approved.

If you have any questions or require additional information, please do not hesitate to call.

Very Truly Yours,

Daniel H. Fischer Managing Member

dali

8153325335

FAX 815 484 4303 ARC DESIGN

Report Date: October 21, 2009 /FO R DTY08504 MIS 04QC Excel Ver 2.0

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(This is a Field/Laboratory Report for MISTIC Input)

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